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THE

Gentleman's Diary,

OR THE

MATHEMATICAL REPOSITORY;

An ALMANACK

For the YEAR of our LORD 1788:

BEING

BISSEXTILE, or LEAP-YEAR.

Containing many useful and entertaining Particulars peculiarly adapted to the ingenious Gentlemen engaged in the delightful Study and Practice of the

MATHEMATICKS.

The Forty-eighth ALMANACK published of this Kind and the Thirty-sixth of the NEW-STYLE in ENGLAND.

——— With wise Intent
The Hand of Nature on peculiar Minds
Imprints a different Byass, and to each
Decrees its Province in the common Toil.
To some she taught the Fabrick of the Sphere,
The changeful Moon, the Circuit of the Stars,
The golden Zones of Heaven: to others gave
To weigh the Moment of eternal Things,
Of Time, and Space, and Fate's unbroken Chain,
And Will's quick Impulse. AKENSIDE.

LONDON:
Printed for the Company of STATIONERS
And Sold by ROBERT HORSFIELD, at their Hall in
LUDGATE-STREET. 1788.
[Price Nine Pence stitched.]

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Two only, which are consequently Solar ones.

June 4th, in the Morning, ⊙ eclipsed, visible:
Beginning 9 H. 24 M. ½. Middle 9 H. 31 M. End 9 H. Digits eclipsed 3° 59′ on ⊙'s southern limb. ☽ first touches the ⊙'s disk at 96° from the vertex on the right hand.

November 27th, ⊙ eclipsed, invisible:
Conjunction at 6 H. 10 M. P. M. in long. 8 S. 16° 18′, ☽'s lat. 9′ S. ⊙ will be centrally eclipsed on the Meridian at 6 H. 13 M. in Lon. 93° ½ West, and Lat. 30° ½ South.

Mr. *P. Fidler*, Mr. *W. King*, and Mr. *W. Swift*, favoured us with the times of the eclipses.

Venus will be an evening star till August 7th, and then a morning star the rest of the year.

Jupiter is an evening star till June 29th, then a morning star during the rest of the year.

ACKNOWLEDGEMENTS.

The favours of our ingenious Correspondents have this year been very liberal indeed: we return them grateful thanks, and assure them that we make it our study to select the best of their performances, and oblige them as far as ever our room will admit; endeavouring to do so without partiality. If any be shewn, it is to those who seem to confine their contributions to this Diary only, which however is open to all, and performances of merit thankfully received, and aimed to be distinguished, let them come from where they will. We are, however, still pestered with plagiarism, and wonder what those who are guilty of it can think of! If they can impose upon us, still this Repository falls into so many hands, that it is great odds but somebody finds them out and exposes them; and what a pitiful figure must a man cut in such a situation!

All Letters for the use of this Diary are desired to be directed thus: For *The Gentleman's Diary*, Stationers-Hall, London. And must arrive there before the beginning of May, otherwise they will be too late.

Several ingenious attempts, but no true answer, except the Proposer's, to the *Prize Question* having been received, the Prizes have been determined by lot among the true answerers of the 15th Question; and the first Prize of 12 Diaries is fallen to Mr. *J. Howard*, Teacher of the Mathematics in *Carlisle*; and the 2nd Prize of 6 Diaries to Mr. *Nathan Parnel*, of Nuneaton, Warwickshire. A Prize of 9 Diaries for the general answer to the Enigmas is fallen to Mr. *J. Stafford*, Writing Master in Brighton; and that of 9 Diaries for the answer to the *Prize Ænigma* to Mr. *T. Lowe*, of Wirksworth in Derbyshire.

They will be delivered to their Order at Stationers-Hall.

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JA-

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JANUARY hath XXXI Days.

New Moon 8th Day, 6 m. before Noon.
First Quarter 16th Day, 57 m. past 9 Morning.
Full Moon 23d Day, at 2 in the Morning.
Last Quarter the 30th Day, 15 m. past 1 Morning.

☉ enters ♒ 20th Day, 6 H. 48 M. Morning.

M D	☉ D Sout
1	23°
6	22
11	21
16	20
21	19
26	18

1	T	Circumcision.	1 m 19	6 m
2	W		2 30	7
3	T		3 39	7
4	F		4 42	8
5	S	Old Christmas Day.	5 40	9
6	F	2d Sund. aft. Christm. Epiph. or Tw. D	6 32	10
7	M	Plough-Monday.	7 15	11
8	T	Lucian P. and M.	☽ sets.	11
9	W		5 a 23	aft.
10	T		6 30	1
11	F		7 30	2
12	S	Old New Year's-Day.	8 47	2
13	F	Sund. aft. Epiphany. Hil. Camb. T. b.	9 57	3
14	M	Oxford Term beg. Days increased half	11 8	4
15	T	an hour.	morn.	5
16	W		22	5
17	T	Old Twelfth Day.	1 39	6
18	F	Q. Charlotte's Birth-Day kept. Prisca.	2 54	7
19	S		4 10	8
20	F	Septuagesima Sunday Fabian. B. & M.	5 16	9
21	M	Agnes, V. & M. In 8 d. of St. Hil. 1 Ret.	6 11	10
22	T	Vincent, M.	6 53	11
23	W	Hilary Term begins.	☽ rises.	morn.
24	T		6 a 50	4
25	F	Conversion of St. Paul.	8 13	1
26	S	Days increased 1 Hour.	9 34	2
27	F	Sexagesima Sunday. Pr. Aug. Fred. bo.	10 50	3
28	M	From St. Hilary in 15 days 2 Return.	morn.	4
29	T		5	4
30	W	K. Charles I. Martyr. 1649.	1 16	5
31	T		2 25	6

D	☉ Rises	☉ Sets.	Cl. bef. ☉	D. Break.	Sun East	Saturn So	Jupiter S.	Mars S
1	8 5	3 55	3 59	6 0	4 41	3 a 6	10 a 24	0 m 44
6	8 1	3 59	6 17	5 58	43	2 47	10 0	0 14
11	7 56	4 4	8 23	54	46	2 27	9 37	11 a 44
16	7 50	4 10	10 14	49	49	2 8	9 14	11 1
21	7 44	4 16	11 46	44	53	1 48	8 51	11 42
26	7 36	4 24	12 59	39	57	1 20	8 27	10 11

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FEBRUARY hath XXIX Days.

New Moon 7th Day, 53 m. paſt 6 Morning.
First Quarter 14th Day, 56 m. paſt 8 Night.
Full Moon 21ſt Day, 49 m. paſt Noon.
Laſt Quarter 28th Day, 26 m. paſt 8 Night.

⊙ enters ♓ 18th Day, 0 H. 28 M. Night.

M D	☉ Decl. South.
1	17° 6′
6	15 37
11	14 2
16	12 20
21	10 34
26	8 43

M D	W D	Sundays, Holidays, Birth-Days, Terms, &c.	Moon R. & S.	Moon South.
1	F		3m 27	7m 22
2	S	Purification of B.V.M. or Candlem. Day.	4 21	8 11
3	I	Quinquageſima, or Shrove-Sunday.	5 6	9 0
4	M	On Mor. of Purif. 3 Ret. [Bp. Blaſe.	5 42	9 48
5	T	Shrove-Tueſday. Agatha, V. & M.	6 13	10 35
6	W	Aſh-Wedneſday. Lent begins.	6 36	11 20
7	T		D ſets.	aft. 4
8	F		6 a 20	47
9	S	In 8 Days of Purif. 4 Ret.	7 42	1 30
10	I	1ſt Sunday in Lent.	8 54	2 14
11	M	Camb. Term. div. n.	10 6	2 59
12	T	Hilary Term ends. Days iner. 2 hours.	11 20	3 46
13	W	Ember Week. Old Candlemas-Day.	morn.	4 37
14	T	Valentine, B.	36	5 32
15	F		1 49	6 29
16	S		2 57	7 30
17	I	2d Sunday in Lent.	3 57	8 31
18	M		4 44	9 31
19	T		5 21	10 29
20	W		5 51	11 24
21	T		D riſes.	morn.
22	F		7 a 7	17
23	S		8 23	1 8
24	I	3d Sunday in Lent. St. Matthias. Pr.	9 41	1 57
25	M	Conſ. Fred. bo. 1774	10 56	2 47
26	T		morn.	3 36
27	W		8	4 26
28	T	Days increaſed 3 hours.	1 15	5 16
29	F		2 13	6 6

D	☉ Riſes	☉ Sets.	Cl. bef. ☉	D. Break.	☉ Eaſt	Sat. S.	Jup. S.	Mars S
1	7 27	4 33	14′ 1″	5 32	5 4	1 a 8	8 a 1	9 a 41
6	7 18	4 42	14 30	24	9 0	51	7 41	9 21
11	7 8	4 52	14 39	16	15 0	33	7 22	9 1
16	6 59	5 1	14 28	7	20 0	16	7 3	8 41
21	6 50	5 10	13 59	4 58	26 11 m	59	6 44	8 21
26	6 40	5 20	13 14	49	32 11	42	6 25	8 1

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MARCH hath XXXI Days.

New Moon 7th Day, 33 m. past 11 Night.
First Quarter 15th Day, 19 m. past 5 Morning.
Full Moon 21st Day, 12 at Night.
Last Quarter 29th Day, 25 m. past 4 Afternoon.
☉ enters ♈ 19th Day, 10 H. 3 M. Night.

M D	☉ Decl. South.
♑	7° 23′
6	5 17
11	3 20
16	1 22
21	North 32
26	2 35

1	S	David, A. Bp.	3 m	2	6m 56
2	E	4th Sunday in Lent. Midlent Sunday.	3	42	7 45
3	M	[Chad, Bp.	4	15	8 32
4	T		4	40	9 18
5	W		5	2	10 3
6	T	Old St. Matthias.	5	24	10 47
7	F	Perpetua, M.	D	sets.	11 31
8	S		6	a 43	aft. 15
9	E	5th Sund. in Lent.	7	57	1 0
10	M		9	13	1 48
11	T		10	29	2 39
12	W	Gregory, M. B.	11	44	3 33
13	T		morn.		4 30
14	F	Camb. Term ends.		55	5 29
15	S	Oxford Term ends.	1	56	6 28
16	E	6th Sund. in Lent. Palm Sunday.	2	44	7 26
17	M		3	23	8 24
18	T	Edw. K. W. Sax.	3	56	9 19
19	W	Equal Day and Night.	4	23	10 11
20	T	Maundy Thursday.	4	45	11 2
21	F	Good Friday. Benedict, Ab.	D	rises.	11 52
22	S		7	a 22	morn.
23	E	Easter-Day.	8	39	42
24	M	Easter Monday.	9	55	1 32
25	T	Easter Tuesday. Annun. B. V. M. or	11	4	2 23
26	W	[Lady-Day.	morn.		3 14
27	T			7	4 5
28	F		1	0	4 55
29	S		1	44	5 44
30	E	1st Sunday after Easter. Low Sunday.	2	21	6 33
31	M		2	50	7 20

D	☉ Rises	☉ Sets	Cl. bef. ☉	D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
1	6 32	5 28	12′ 28″	4 4	5 36	11 m 28	6 a 11	7 a 49
6	6 22	5 38	11 20	31	42	11 12	5 55	7 36
11	6 12	5 48	10 2	20	48	10 56	5 39	7 24
16	6 2	5 58	8 36	10	55	10 40	5 23	7 12
21	5 52	6 8	7 5	0	6 1	10 24	5 7	7 0
26	5 42	6 18	5 32	3 48	7	10 8	4 51	6 48

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APRIL hath XXX Days.

New Moon 6th Day, 17 m. past 1 Afternoon.
First Quarter 13th Day, 52 m. past 11 Morning.
Full Moon 20th Day, at Noon.
Last Quarter 28th Day, 39 m. past 11 Morning.

⊙ enters ♓ 19th Day, 10 H. 47 M. Morning.

M D	⊙ Decl. North.
1	4° 54
6	6 48
11	8 39
16	10 27
21	12 10
26	13 49

1	T		3 m 15	8	4
2	W	Oxf. and Camb. Terms begin.	3 35	8	49
3	T	Richard, Bp. of Chicheſter.	3 54	9	33
4	F	St. Ambroſe.	4 13	10	17
5	S	Old Lady-Day.	4 30	11	2
6	E	2d Sunday after Eaſter.	☽ ſets.	11	50
7	M	Eaſter Term 1 ret.	8 a 22	aft.	41
8	T		9 40	1	35
9	W	Eaſt. Term begins at Weſtminſter.	10 52	2	32
10	T		11 57	3	31
11	F		morn.	4	31
12	S		50	5	30
13	E	3d Sunday after Eaſter.	1 33	6	27
14	M	Eaſter T. 2 ret.	2 6	7	21
15	T		2 34	8	13
16	W		2 51	9	3
17	T		3 19	9	52
18	F		3 39	10	40
19	S	Alphege, A. B.	4 0	11	29
20	E	4th Sunday after Eaſter.	☽ riſes.	morn.	
21	M	Eaſt. T. 3 ret.	8 a 53		20
22	T		9 58	1	11
23	W	St. George, M.	10 56	2	2
24	T		11 44	2	53
25	F	St. Mark. Prs. Mary bo. 1776.	morn.	3	43
26	S		24	4	32
27	E	5th S. after Eaſter. Rogation Sunday.	55	5	19
28	M	Eaſt. T. 4 ret.	1 22	6	5
29	T		1 43	6	49
30	W		2 2	7	32

D	⊙ Riſes	⊙ Sets	Cl. bef. ⊙	D. Break	⊙ Eaſt	Saturn S.	Jupiter S.	Mars S.
1	5 31	6 29	3′ 40″	3 31	6 15	9 m 52	4 a 33	6 a 35
6	5 21	6 39	2 12	19	21	9 35	4 19	6 25
11	5 11	6 49	2 48	4	27	9 18	4 4	6 16
16	5 2	6 58	aft. 27	2 52	33	9 1	3 49	6 7
21	4 53	7 7	1 35	38	39	8 44	3 34	5 58
26	4 44	7 16	2 31	23	4	8 26	3 19	5 49

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MAY hath XXXI Days.

New Moon 6th Day, 46 m. before 1 Morning.
First Quarter 12th Day, 33 m. past 5 Afternoon.
Full Moon 20th Day, 8 m. past 1 Morning.
Last Quarter 28th Day, 33 m. past 4 Morning.

☉ enters ♊ 20th Day, 11 H. 21 M. Morning.

M D	☉ Decl. North
1	15° 21′
6	16 48
11	18 7
16	19 19
21	20 23
26	21 18

1	T	St. Ph. & St. Ja. Aſc. D. Holy Thurſd.	2m 21	8m 14
2	F	On morrow of Aſcenſ. 5 ret.	2 39	8 59
3	S	Invention of the Croſs.	3 0	9 47
4	E	Sunday after Aſcenſion-Day.	3 21	10 35
5	M	Eaſter Term ends.	3 48	11 28
6	T	St. John Ev. ante P. L.	☽ ſets.	aft. 25
7	W		9 a 51	1 25
8	T	Oxford Term ends.	10 49	2 26
9	F		11 36	3 27
10	S		morn.	4 26
11	E	Whit-Sunday.	12	5 22
12	M	Whit-Monday. Old May-Day.	42	6 14
13	T	Whit-Tueſday.	1 5	7 4
14	W	Ember Week.	1 27	7 52
15	T		1 48	8 39
16	F		2 7	9 27
17	S		2 29	10 16
18	E	Trinity Sunday. Camb. T. div. m.	2 54	11 5
19	M	Q. Charlotte born 1744. Dunſtan.	3 24	11 56
20	T		☽ riſes.	morn.
21	W	Oxford Term begins.	9 a 41	47
22	T	Prs. Eliz. born 1770. Corpus Chriſti.	10 22	1 38
23	F	Trin. Term begins.	10 57	2 27
24	S		11 24	3 15
25	E	1ſt Sunday after Trinity	11 46	4 0
26	M	Auguſtin, A. B.	morn.	4 44
27	T	Ven. Bede, Pr.	7	5 27
28	W		26	6 9
29	T	K. Charles II. Birth and Return, 1660.	43	6 52
30	F		1 1	7 36
31	S		1 21	8 23

D	☉ Riſes	☉ Sets	Cl. aft. ☉	D. Break	☉ Eaſt	Saturn S.	Jupiter S.	Mars S
1	4 35	7 25	3′ 13″	2 5	6 50	8 m 7	3 a 4	5 a 40
6	4 27	7 33	3 42	1 51	6 56	7 44	2 48	5 3
11	4 19	7 41	3 57	1 29	7 0	7 27	2 33	5 2
16	4 11	7 49	3 58	1 6	7 5	7 10	2 18	5 1
21	4 4	7 56	3 45	0 30	7 9	6 53	2 3	5
26	3 58	8 2	3 19	No Night	7 11	6 36	1 48	4 5

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JUNE hath XXX Days.

M D	☉ Decl. North
1	22° 11′
6	22 46
11	23 10
16	23 24
21	23 28
26	23 22

New Moon 4th Day, 58 m. past 8 Morning.
First Quarter 10th Day, at 38 m. past 11 Night.
Full Moon 18th Day, 26 m. past 3 Afternoon.
Last Quarter 26th Day, 40 m. past 6 Afternoon.

☉ enters ♋ 20th Day, 8 H. 2 M. Afternoon.

1	F	2d Sunday after Trinity. Nicomede.	1m 45	9m 13
2	M	In 15 Days of H. Tr. 3 Ret.	2 14	10 7
3	T		2 52	11 6
4	W	K. Geo. III. bo. 1738. ☉ eclipsed.	☽ sets.	aft. 8
5	T	Pr. Ernest Aug. b. 1771. Bonifface.	9 a 27	1 11
6	F		10 11	2 13
7	S		10 43	3 11
8	F	3d Sund. aft. Trinity.	11 8	4 6
9	M	In 3 weeks of H. Tr. 4 ret.	11 31	4 58
10	T		11 51	5 47
11	W	St. Barnabas. Trinity Terms ends.	morn.	6 34
12	T		10	7 22
13	F		32	8 10
14	S		56	8 58
15	F	4th Sunday after Trinity.	1 23	9 48
16	M		1 57	10 38
17	T	St. Alban, M.	2 38	11 28
18	W		☽ rises.	morn.
19	T		8 a 52	18
20	F	Tr. of Edw. K. W. Sax. Longest Day.	9 24	1 6
21	S		9 46	1 52
22	F	5th Sunday after Trinity.	10 7	2 36
23	M		10 25	3 19
24	T	St. John Bapt. Midsummer D.	10 43	4 1
25	W		11 1	4 42
26	T		11 19	5 25
27	F		11 40	6 9
28	S		morn.	6 56
29	F	6th Sunday after Trinity. St. Peter.	6	7 47
30	M		38	8 42

☽	☉ Rises	☉ Sets	Cl. aft.	☉		☉ East	Saturn S.	Jupiter S.	Mars S.
1	3 51	8 9	2′ 31″	No	7	16	6 m 13	1 a 29	4 a 4
6	3 47	8 13	1 40	real		18	5 53	1 13	4 3
11	3 45	8 15	0 42	Night,		19	5 3	0 56	4 23
16	3 43	8 17	bef. 20	but		20	5 12	0 42	4 13
21	3 43	8 17	1 24	Twi-		20	4 51	0 26	4 3
26	3 44	8 16	2 27	light.		20	4 30	0 10	3 53

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JULY hath XXXI Days.

	M	D	☉ Decl. North.
New Moon 3d Day, 15 m. past 4 Afternoon.	1	23°	6′
First Quarter 10th Day, 33 m. past 7 Morning.	6	22	38
Full Moon 18th Day, 34 m. past 6 Morning.	11	22	1
Last Quarter 26th Day, 10 m. past 6 Morning.	16	21	15
	21	20	20
☉ enters ♌ 22d Day, 6 H. 53 M. Morning.	26	10	17

1	T	Camb. Commencement.	1 m	22	9	42
2	W	Visitation of B. V. Mary.	2	19	10	45
3	T	Dog-Days begin in England.	☽ sets.		11	48
4	F	Transf. of St. Martin. Camb. T. ends.	8 a	34	aft.	50
5	S	Old Midsummer-Day.	9	5	1	49
6	E	7th Sunday after Trinity.	9	29	2	44
7	M	Thomas à Becket.	9	51	3	35
8	T		10	9	4	24
9	W		10	32	5	13
10	T	Old St. Peter.	10	55	6	2
11	F		11	21	6	50
12	S		11	53	7	40
13	E	8th Sunday after Trinity.	morn.		8	30
14	M	Oxford Act.		32	9	20
15	T	Swithin, B. Tr.	1	18	10	9
16	W		2	11	10	58
17	T		3	11	11	45
18	F		☽ rises.		morn.	
19	S	Oxford Term ends.	8 a	10		30
20	E	9th Sund. after Tr. Margaret, V. & M.	8	29	1	14
21	M		8	46	1	56
22	T	St. Mary Magdalen.	9	4	2	37
23	W		9	22	3	19
24	T		9	43	4	2
25	F	St. James Apost.	10	6	4	48
26	S	St. Anne. Old St. Swithin.	10	36	5	36
27	E	10th Sunday after Trinity.	11	11	6	28
28	M		morn.		7	24
29	T			0	8	23
30	W		1	2	9	25
31	T		2	16	10	27

D	☉ Rises		☉ Sets		Cl. bef. ☉		D. Break	☉ East		Saturn S.		Jupiter S.		Mars S.	
1	3	40	8	20	3′	28′		7	19	4 m	11	11 m	54	3 a	44
6	3	50	8	10	4	21	No		18	3	51	11	38	3	34
11	3	54	8	6	5	6	real		16	3	30	11	23	3	2
16	3	59	8	1	5	38	Night.		13	3	9	11	8	3	16
21	4	4	7	56	5	58			9	2	48	10	53	3	7
26	4	10	7	50	6	3	0 46		5	2	27	10	38	2	58

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AUGUST hath XXXI Days.

New Moon 1st Day, 6 m. past 11 Night.
First Quarter 8th Day, 36 m. past 6 Afternoon.
Full Moon 16th Day, 57 m. past 9 Night.
Last Quarter 24th Day, 39 m. past 3 Afternoon.
New Moon 31st Day, 34 m. past 6 Morning.
⊙ enters ♍ 22d Day, 1 H. 14 M. Afternoon.

M D	⊙ Decl. North.
1	17° 50′
6	16 30
11	15 3
16	13 30
21	11 51
26	10 8

			D sets.		D rises.	
1	F	Lammas-Day.	7 a 28	11 29 aft. 26	6 a 55	morn.
2	S		7 51	1 21	7 14	39
3	E	11th Sunday after Trinity.	8 13	2 14	7 34	1 22
4	M		8 36	3 5	7 53	2 5
5	T	Old St. James.	9 0	3 55	8 16	2 50
6	W	Transfiguration.	9 25	4 45	8 43	3 37
7	T	Prs. Amelia born 1783. Name of Jesus.	9 55	5 35	9 15	4 26
8	F		10 32	6 25	9 59	5 20
9	S		11 16	7 16	10 52	6 16
10	E	12th Sunday after Tr. St. Lawrence.	morn.	8 7	11 58	7 15
11	M	Prs. of Brunsw. born 1737. Dog-days end.	8	8 56	morn.	8 15
12	T	Pr. of Wales b. 1762. Old Lammas-D.	1 6	9 44	1 16	9 15
13	W		2 8	10 30	2 39	10 14
14	T		3 13	11 14	4 6	11 11
15	F	Assumption.	D rises.	11 57	D sets.	aft. 5
16	S	D. of York born 1763.				
17	E	13th Sunday after Trinity.				
18	M					
19	T					
20	W					
21	T	Pr. Wm. Henry born 1765.				
22	F					
23	S					
24	E	14th Sunday after Tr. St. Barthol.				
25	M					
26	T					
27	W					
28	T	St. Auguſtine.				
29	F	Beheading of St. John the Baptiſt.				
30	S					
31	E	15th Sunday after Trinity.				

D	⊙ Rises	⊙ Sets	Cl. bef. ⊙	D. Break	⊙ East	Saturn S.	Jupiter S.	Mars S.
1	4 20	7 40	5′ 51″	1 24	7 0	2 m 0	10 m 20	2 a 49
6	4 27	7 33	5 24	1 44	6 55	1 42	10 5	2 41
11	4 36	7 24	4 43	2 2	50	1 20	9 50	2 34
16	4 45	7 15	3 47	2 20	45	1 0	9 36	2 27
21	4 54	7 6	2 38	2 35	39	0 a 40	9 22	2 2
26	5 3	6 57	1 18	2 50	24	0 20	9 8	2 1

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SEPTEMBER hath XXX Days.

	M D	☉ Decl. North.
First Quarter 7th Day, 18 m. past 9 Morning.	1	7° 59′
Full Moon 15th Day, 10 m. past 1 Afternoon.	6	6 8
Last Quarter 22d Day, 38 m. past 11 Night.	11	4 14
New Moon 29th Day, 45 m. past 3 Afternoon.	16	2 19
	21	0 22
☉ enters ♎ 29th Day, 9 H. 42 M. Morning.	26	1 S 35

1	M	Giles, Ab. and C.	6 a 44	aft. 57
2	T	London burnt 1666, O.S.	7 8	1 49
3	W		7 33	2 41
4	T	Old St. Bartholomew.	8 3	3 33
5	F		8 38	4 25
6	S		9 20	5 17
7	E	16th Sund. aft. Tr. Enurchus, B.	10 9	6 8
8	M	Nativity of V. Mary.	11 5	6 58
9	T		morn.	7 47
10	W		6	8 34
11	T		1 11	9 19
12	F		2 17	10 2
13	S		3 23	10 45
14	E	17th Sunday after Trinity. Holy Cross.	4 31	11 28
15	M		☽ rises.	morn.
16	T		6 a 9	12
17	W	Ember Week. Lambert, B. M.	6 31	51
18	T		6 58	1 42
19	F		7 26	2 33
20	S		8 8	3 27
21	E	18th Sunday after Trin. St. Matthew.	8 57	4 20
22	M	K. George III. crowned 1761.	9 58	5 17
23	T	Equal day and night.	11 9	6 11
24	W		morn	7 1
25	T		28	8 1
26	F	St. Cyprian, M.	1 50	9
27	S		3 13	10
28	E	19th Sunday after Trinit	4 36	10 5
29	M	St. Michael. Prs. Cha. Aug. bo. 1766.	☽ sets.	11 4
30	T	St. Jerome, C. D.	5 a 43	aft. 3

D	☉ Rises	☉ Sets	Cl. aft. ☉	D. Break	☉ Katt	Saturn S.	Jupiter S.	Mars.
1	5 15	6 45	0 28″	3 17	6 27	11 a 53	8 m 51	2 a
6	5 24	6 36	2 5	21	21	11 33	8 37	2
11	5 34	6 26	3 48	34	14	11 13	8 23	1
16	5 44	6 16	5 33	45	8	10 54	8 8	1
21	5 54	6 6	7 18	56	2	10 35	7 53	1
26	6 4	5 56	9 0	4 7	5 56	10 16	7 37	1

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OCTOBER hath XXXI Days.

	M D	☉ Decl. South.
First Quarter 7th Day, 28 m. paſt 3 Morning.	1	3° 15′
Full Moon 15th Day, 50 m. paſt 2 Morning.	6	5 11
Laſt Quarter 22d Day, at 43 m. paſt 6 Morning.	11	7 6
New Moon 29th Day, 29 m. paſt 3 Morning.	16	8 58
	21	10 47
☉ enters ♏ 22d Day, 5 H. 39 M. Afternoon.	26	12 32

1	W	Remigius, Bp.	6	a 9	1	29
2	T	Old St. Matthew.	6	45	2	23
3	F		7	25	3	16
4	S		8	11	4	8
5	E	20th Sunday after Trinity.	9	5	4	59
6	M	Faith, V. M.	10	5	5	49
7	T		11	8	6	37
8	W		morn.		7	22
9	T	St. Denys.		12	8	6
10	F	Oxf. and Cam. T. be. O. Michaelm. Day.	1	19	8	49
11	S		2	26	9	32
12	E	21ſt Sunday after Trinity.	3	34	10	15
13	M	Tranſl. of K. Edw. Confeſſor.	4	42	11	0
14	T		5	42	11	47
15	W		☽ riſes.		morn.	
16	T		5	a 35		36
17	F	Etheldreda, V.	6	14	1	28
18	S	St. Luke.	6	59	2	23
19	E	22d Sunday after Trinity.	7	59	3	20
20	M		8	8	4	18
21	T		10	21	5	16
22	W		11	41	6	12
23	T		morn.		7	6
24	F		1	2	7	58
25	S	K. Geo. III. Acceſ. Criſpin, M.	2	22	8	49
26	E	23d Su. aft. Tr. K. Geo. III. Proclam.			9	40
27	M				10	31
28	T	St. Simon and St. Jude.			11	23
29	W				aft.	15
30	T				1	8
31	F				2	1

	☉ Riſes	☉ Sets	Cl. aft. ☉	☽ S.	Mars S.
	6 13	5 47		1 23	1 a 32
	6 23	5		6	1 27
	6 33	5		49	1 22
	6 43			6 32	1 17
	6 53			6 15	1 12
	7			5 58	1 7

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NOVEMBER hath XXX Days.

First Quarter 5th Day, 53 m. past 11 Night.
Full Moon 13th Day, 40 m. past 5 Night.
Last Quarter 20th Day, 49 m. past 1 Afternoon.
New Moon 27th Day, 10 m. past 6 Night.

☉ enters ♐ 21st Day, 1 H. 52 M. Afternoon.

M. D	☉ Decl. South.
1	14° 45′
6	16 17
11	17 42
16	19 0
21	20 9
26	21 9

1	S	All Saints. [All Souls.	6 a	59	2 54
2	E	24th Su. aft. Tr. Pr. Edw. b. 1767.	7	58	3 45
3	M	Prs. Sophia b. 1777. Mor. All S. 1 Ret	8	58	4 33
4	T		10	3	5 19
5	W	Powder Plot, 1605.	11	9	6 4
6	T	Leonard, C. Michaelmas Term begins.	morn.		6 47
7	F	D. of Cumberland b. 1745.		13	7 29
8	S	Prs. Aug. Sophia bo. 1768.	1	18	8 11
9	E	25th Sund. aft. Tr. Lord Mayor's Day	2	27	8 54
10	M	[at London.	3	36	9 39
11	T	St. Martin.	4	47	10 27
12	W	On Mor. of St. Mart. 2 Ret. Camb. T.	5	59	11 18
13	T	Britius. [div.	☽ rises.		morn.
14	F		4 a	55	13
15	S	Machutus.	5	51	1 11
16	E	26th Sunday after Trinity.	6	56	2 10
17	M	Hugh, Bp. of Lincoln.	8	7	3 9
18	T	In 8 Days of St. Mart. 3 Ret.	9	30	4 6
19	W		10	49	5 1
20	T	Edmund K. & Mart.	morn.		5 54
21	F			9	6 44
22	S	Cecilia. Old Martinmas-Day.	1	26	7 32
23	E	27th Sund. aft. Tr. St. Clement, B.	2	38	8 22
24	M		4	1	9 12
25	T	D. of Glouc. b. 1743. Catherine V. In	5	15	10 2
26	W	[15 days of St. Mart. 4 Ret.	6	28	10 54
27	T	☉ eclipsed invisible.	☽ sets.		11 46
28	F	Michaelmas Term ends.	4 a	43	aft. 39
29	S		5	38	1 30
30	E	Advent Sunday. St. Andrew.	6	30	2 20

D	☉ Rises	☉ Sets	Cl. aft. ☉	D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
1	7 13	4 47	16 13	5 17	5 13	7 a 57	5 m 39	1 a 2
6	22	38	16 5	24	7 7	37	5 20	0 56
11	30	30	15 36	30	2 7	17	5 0	0 51
16	37	23	14 47	36	4 57	6 57	4 39	0 46
21	45	15	13 36	43	53	6 37	4 18	0 41
26	52	8	12 5	49	49	6 16	3 57	0 36

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DECEMBER hath XXXI Days.

First Quarter 5th Day, 46 m. past 8 Night.
Full Moon 13th Day, 22 m. past 6 Morning.
Last Quarter 19th Day, 4 m. past 10 Night.
New Moon 27th Day, 31 m. past 11 Morning.
☉ enters ♑ 21st Day, 2 H. 14 M. Morning.

M D	☉ Decl. South.
1	21° 59
6	22 38
11	23 6
16	23 23
21	23 28
26	23 21

1	M		7 a 45	3 a	7
2	T		8 49	3	52
3	W		9 53	4	35
4	T		10 58	5	17
5	F		morn.	5	58
6	S	Nicholas, B.	3	6	39
7	E	2d Sunday in Advent.	1 9	7	22
8	M	Conception of V. Mary.	2 18	8	7
9	T		3 27	8	56
10	W		4 40	9	49
11	T		5 53	10	45
12	F		7 2	11	44
13	S	Lucy, V. & M.	☽ rises.	morn.	
14	E	3d Sund. in Advent.	5 a 41		44
15	M		7 2	1	44
16	T	O Sapientia! Camb. Term ends.	8 23	2	42
17	W	Ember Week. Oxford Term ends.	9 47	3	38
18	T		11 6	4	31
19	F		morn.	5	21
20	S		23	6	10
21	E	4th Sunday in Advent. St. Thomas.	1 38	6	58
22	M	[Shortest Day.	2 53	7	47
23	T		4 5	8	37
24	W		5 12	9	28
25	T	Nativity, or Christmas-Day.	6 16	10	19
26	F	St. Stephen, Protomartyr.	7 7	11	11
27	S	St. John.	☽ sets.	aft	1
28	E	1st Sunday after Christmas. Innocents.	5 a 16		48
29	M		6 21	1	34
30	T		7 27	2	18
31	W	Silvester.	8 32	3	0

☽	☉ Rises	☉ Sets	Ch. aft. ☉	D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
1	7 58	4 2	10′ 16″	5 55	4 40	5 a 54	3 m 35	☌ a 30
6	8 3	3 57	8 11	58	43	5 34	3 11	☌ 24
11	8 6	3 54	5 55	59	41	5 13	2 47	☌ 19
16	8 8	3 52	3 31	6 0	40	4 52	2 23	☌ 14
21	8 8	3 52	1 1	1	40	4 31	1 59	☌ 8
26	8 7	3 53	1 bef. 28	0	40	4 10	1 36	☌ 2

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ANSWERS *to the* QUESTIONS *Critical and Philosophical.*

LXIV. Answered by *Philocriticus.*

To *rise early in the morning* to do a thing, implies the doing it with the greatest diligence and attention. See 2 Chron. xxxvi. 15. Jerem. vii. 13. 25. and xi. 7. and xxv. 3. 4. and xxvi. 5. and xxix. 19. and xxxii. 33. and xliv. 4.

To bless our friend then *rising early*, and *with a loud voice*, must signify our doing it with *great and affected ostentation*: and this (the latter part of the text tells us) will make us appear mean and contemptible in the opinion of those to whom we pay our court in such a manner. מקלל רעהו השכים לו

Accordingly the text should have been translated, 'He that blesseth his friend with a loud voice, rising early in the morning, will set himself low in his estimation.' *Heb.* Will make himself be thought mean by him.

In reading the text here, an ה is taken from the end of one word, and set at the beginning of the next. A great number of passages in Holy Writ are rendered incapable of receiving a clear and satisfactory explication by a wrong division of its letters into words. Many instances of this are given in *Greenaway's* New Translation of some Parts of *Euclid's Elements*, with a Paraphrase. Part III. Sold by *Longman*. We seem to have an instance of it in the passage to which the next Question refers.

In a manner not greatly different is the Answer also given by Messrs. *Burrow, Cairus, Cavill, Crompton, Dixon, Fidler, Harrison, J. Jackson, Juvenis, King, Peat, Rowe, Rusher, Townsend, Virgilius, Walton, Ward,* and *Watkins.*

LXV. By Mr. *John Watkins*, Philomath, Bideford, Devon.

It is well known to all who understand the *Hebrew*, that the *imperative mood* is frequently to be understood as *predicting, permitting,* or *supposing* a thing, and not always *commanding* or *petitioning*. Consistent, therefore, with the general tenor of Scripture, and analogy of faith, we must read this passage thus, *Death shall,* or will assuredly, *come suddenly upon them, and they shall go down quick* (Heb. *alive*) *into Hell,* or the Grave, *for,* or because, *wickedness is in their dwellings and among them.* And the same rule may be applied to other similar texts.

Philocriticus says, the first word, *Ps.* lv. 16. is anomalous, neither *Jew* nor *Christian* knowing what to make of it. But take the last letter of the last word of the preceding verse, and set it before the first word of this, and the text will be, 'Rejoice over them, O Death, for they shall go down quick into Hell, or the grave.' Here is nothing like an imprecation. It is only a plain denunciation of the punishment which should befall such wretches. As to the 15th verse thus altered by transposing the letter ש, בלג may be used for בלך; in which you have only the common substitution of one letter for another of the same organ. And then the Psalmist will say, 'We took sweet counsel together, we walked in the House of God with tenderness,' or as friends. The word immediately preceding, ending with ך, may be the reason why the Psalmist would end this with נ. But if Mr. *Hunt's* scruples are still unsatisfied, Mr. *Merrick's* Annotations on the sixth Psalm are submitted to his consideration.

Mr. *W. King* says, probably David might mean no more, than rehearsing the dreadful calamities which God will inflict upon all those that are thus false-hearted, and make a cloak of religion to accomplish

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their base designs. And Messr. *Burrow*, *Cairns*, *Dixon*, *Gradidge*, *J. Jackson*, *Jewell*, *Juvenis*, *Peat*, *Rowe*, *Townsend*, *Virgilius*, and *Walton*, have all favoured us with such answers might as well bear to see the light if we could possibly find room for them.

LXVI. By Mr. *T. Peat*, of Barnsley.

As the soul's immortality, and future rewards and punishments are abundantly confirmed by various texts of the Old Testament, as Isaiah xxxiii. 14—17. Dan. xii. 2, 3, &c. Job xiv. 12, and 19, 25, 26, 27. It is collected that the Jews had all along those doctrines by tradition from the Partiarchs; which is sufficient without much being said of them in what is properly called the Mosaical Law, the chief intent of which was not to confirm any particular doctrines, but to set forth the ecclesiastical and civil government of the Jewish church and nation in the promised *Canaan*, which being only a temporal inheritance required only temporal promises.

Mr *John Cairns* says, Because that first dispensation has not such an immediate relation to eternity as the present hath, therefore the Jews had only the *Gospel* exhibited therein in types and shadows, the Christian has it as an image seen through a mirrour now, but hereafter it will be exhibited without any medium, except the Mediator, whom we shall see as he is.

Ingenious answers were also given by Messr *Burrow*, *Fidler*, *Gradidge*, *J. Jackson*, *Juvenis*, *Rowe*, *Walton*, and *Watkins*.

LXVII. By Mr. *J. Burrow*, of Bolton-Field.

David's sin was pride; for being now in a flourishing condition his mind was lifted up, and he thought it would contribute much to his honour in the ears of the neighbouring princes, to have so many thousand subjects able to bear arms. The peoples' sin may be proved from *Exod.* xxx. 12. The ransom there mentioned was about 15 pence each for both rich and poor, as their souls were alike unto the Lord. This afterwards became an annual tribute, which was perhaps the reason that David did not demand it now: for as a plague followed, we may conclude that this ransom was not paid, nor carried to the High-Priest to make an atonement for their souls.

Similar answers were also given by Messr. *Cairns*, *Cavill*, *Gradidge*, *Harrison*, *J. Jackson*, *Jewell*, *Juvenis*, *King*, *Lowry*, *Mellanby*, *Peat*, *Rowe*, *Townsend*, *Virgilius*, *Walton*, *Ward*, and *Watkins*.

LXVIII. Answered by Mr. *J. Ruther*, of Charlbury:

The man who keeps the golden mean, | Makes piety his only care, [faith
Who calmly steers his bark between | And whose pure life and conscience
The rocks of hope, and gulphs of fear, | He shall be happier after death.

Mr. *Gradidge*, the Proposer, says, the man who fears God, and obeys the precept of his Lord to do to others as he would have them do to him, is the happy man. And similar answers were given by Messr. *Burrow*, *Cairns*, *Cavill*, *Harrison*, *J. Jackson*, *Jewell*, *Juvenis*, *King*, *Lee*, *Lowry*, *Mellanby*, *Peat*, *Rowe*, *Stafford*, *Swift*, *Walton*, *Ward*, and *Watkins*.

LXIX. By Mr. *Wm Harrison*, Wirksworth, Derbyshire.

The cause is, that sometimes the vapours in the morning or evening are at such a height and density, as to refract the red rays of light only.

And thus the answer is given by Messr. *Burrow*, *Cavill*, *Gradidge*, *J. Jackson*, *Mellanby*, *Rowe*, *Walton*, and *Ward*. Mr. *Burrow* says, sometimes in a very grose atmosphere the purple is reflected to the side opposite the sun, which is a sign of much rain.

LXX. By

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LXX. By Mr. *John Burrow*, of Bolton-field.

This is only in a close room, and is not caused by the charcoal giving out any pernicious matter, but from the quality of the air in the room being altered by the fire. For air that has passed through burning fuel is no longer capable of supporting either fire or the life of animals; and charcoal, emitting little or no smoke, must certainly destroy the most air, for smoke is a great help to the circulation of air.

Mr. *Ward* of Hinckley says, Dr. *Priestley* accounts for it by the diminution of the air in consequence of being overcharged with *phlogiston*, and the deposition of *fixed air*. And like answers are given by Messrs. *Dixon*, *Fidler*, *Gradidge*, *Harrison*, *J. Jackson*, *Jewell*, *Mellanby*, *Stafford*, *Swift*, *Walton*, and *Waugh*.

LXXI. By Mr. *Alexander Rowe*, of Reginnis, Cornwall.

Doubtless by its foot, its breath, and in some degree by almost every part of its body; especially when the fluids are in a violent agitation. As to the second part, granting the fact, it is certainly what is generally called instinct exerted for self-preservation, which is natural to all animals.

And to the same effect are the answers by Messrs. *Burrow*, *Cavill*, *Fidler*, *Harrison*, *J. Jackson*, *Lee*, *Mellanby*, *Risher*, *Walton*, and *Watkins*.

LXXII. By Mr. *J. Winterbottom*, of Failsworth-School.

By a chemical process it is found, that stones in general contain salts, oily-juice, sand, mud, &c. These elementary parts are carried along by water, till meeting with such a tracting subjects in their course as clay, loamy-earth, &c. they commix themselves, as lime and water form cement, and by length of time and continual application grow, or form different layers, as in the stalactites and slate; their different textures and qualities arising from the vast variety of commixtion of the above elements.

In April 1785, I found a sort of blue clay, such as comes out of coal-mines: this I took, moulded into a particular shape, tied a string about it, and fastened it in a small stream, whose conflux was partly spring and partly rain-water. I often visited it, to see the alterations it underwent, which to me were surprizing, and in Feb. 1787, taking it out of the water, I found it concreted to a solid stone.

Ingenious answers were also given by Messrs. *Burrow*, *J. Jackson*, *Jewell*, *Rowe*, *Walton*, and *Waugh*.

LXXIII. By Mr. *H. Mellanby*, of Stockton, School-master.

Astrology has long ago been confuted by men of sound learning; but their endeavours to banish it entirely seem ineffectual, since its interested advocates are numerous, and the vulgar so easily and willingly imposed upon. Many pious and well-meaning Christians are imposed upon and deluded by the scripture sentences with which astrological books abound, such as Gen i. 14. Job xxxviii. 31, 32. And I have heard one of those wordy astrologers talk as if he had been present when God laid the foundations of the earth, and knew all the ordinances of heaven. But let such consult Job xxxviii. 4, and 33; where they may, along with *him*, be made sensible of their imbecillity.

Mr. *Jackson* the proposer says, all horary questions respecting fortune and the like must be absolute nonsense, since a different time in asking the same question will give a different result. And of the same opinion is Mr. *Jewel* of Bideford, and Mr. *Walton*. As to the new book of Astrology, in two Vols. Folio, which the former of these gentlemen wishes for an opinion about, we are told that it is for the most part stolen word

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for word from the works of former *Wiſeacres* upon the ſubject, and deſerves to be laid upon the *fire-back*, together with the *author* of it.

LXXIV. By the Propoſer.

A longing for ſomething that ſhe is not permitted to taſte, and fighting but chiefly infection, are the common cauſes.—And timely ſeparation from others under the ſame diſorder, letting blood, and giving a little allum, or, if in the winter ſeaſon, ſprinkling the ſtalls with vinegar, will generally prevent it.

Mr. *John Jackſon*, and Mr. *Burrow* obſerve that the cauſes of this are various; when the navel-ſtring is broken and the calf killed there is no preventing it; but in other caſes Mr. *Burrow* ſays, a drink of diapente and liquorice, with a little cinnamon, long-pepper, and ginger, boiled in a quart of ale, and the beaſt to be kept warm 2 or 3 days, is proper. Mr. *W. Harriſon* ſays, an eminent farmer of my acquaintance recommends the following remedy, which he has never known to fail. Of roach allum, dragons blood, and bole armenian, each four ounces finely powdered, diſſolved in one quart of white wine vinegar, and about Michaelmas rub the loins of the beaſt well with it.

LXXV. By Mr. *John Jackſon*, of Hutton-Rudby-School.

If you put the ſwivel of a watch between your teeth, your jaw-bone becomes a conductor of ſound to the tympanum or drum of your ear; and then, by ſtopping your ears with your fingers, you exclude external noiſe, and hear the beating of the watch better and louder than before.

And thus likewiſe the anſwer is given by Meſſrs. *Burrow*, *Cairus*, *Dixon*, *Harriſon*, *Jewell*, *Lee*, *Mellanby*, and *Walton*.

ÆNIGMATOLOGY.

ANSWERS to the laſt years ÆNIGMAS.

1. A Buckle.
2. A Grave-Digger.
3. A Deer.
4. A Pepper-Caſter.
5. A Drawer.
6. A Bladder.
7. Tea.
8. A Corn-Riddle.
9. A Lock.
10. A Boot.
11. An Oak.
12. Sleep and Time.
13. Death or Pain.
14. Verſe or Poetry.
15. Plague.
16. The Right Hand.

1. Rebus. Necklace. 2. Death-Watch. 3. Larkſpur. 4. Drab. 5. Eye. 6. Lee.

GENERAL ANSWERS.

1. The Miſer. By Mr. T. PEAT, of Barnſley.

Old Mammon graſps his golden god — His golden hoard is all his care;
With *hands* briareau ſpread abroad: — To ſave he lives on roarſeſt fare,
He toils by day, nor *ſleeps* by night, — Swift as a *dear* tho' moments flee,
Pain and diſtreſs his pleaſures blight. — Affords he no refreſhing *tea*.
So *plagu'd*, leſt his ſtrong *cheſt* of *oak* — At laſt pinch-penny *leaves* his pelf
Be not ſecure with four-fold *lock*: — To one more liberal than himſelf.
He needs no *riddles*, *buckles*, *boots*, — Behold! the clerk and ſexton come,
Gilt *caſtors*, *bladders*, ſundry ſuits; — With joy they *ſing* him to his tomb.

And

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And next with words of fixt oration
The prieſt conſigns him to his ſtation;
So ſing, my *muſe* with graceful tone,
Here lies the duſt of miſer *John*,
Who never durſt his belly fill,
But left his all to couſin *Will*.

2. An Evening Meditation. By Mr. J. BURROW, of Boltonfield.

Come, gentle peace, and ſooth my breaſt,
T'enjoy a ſilent hour,
Sweetly compoſe my mind to reſt,
Beneath this ſhady bower.
Bright Phœbus o'er yon diſtant hill
Has left the gold ting'd ray,
But the near proſpect's pleaſant ſtill,
And chears the eve of day. [books
I've *lock'd* my *draw'rs* and caſe of
That to beſt ends conduce. [hooks,
Sieves, *caſters*, *buckles*, *tea*-cheſt,
And other things for uſe.
In life and *death* I wou'd be free
From trouble and from *pain*:
My *hand* not *plagu'd* with *poetry*,
To that I can't attain.
No *ſexton* will diſturb me here
Beneath this ſpreading *oak*,
No *boot*-maker who ſteals the *deer*,
Or puffs the *bladder'd* joke.
Nor envy I the rich, the great,
Whoſe minds ſo oft incline,
Eager to ſe'ze the alluring bait
From pleaſure's gilded ſhrine.
And when the hours of ſoft repoſe
The weary limbs invite,
May balmy *ſleep* its ſweets diſcloſe
To bleſs the ſhades of night.

3. The Anſwers. By Mr. J. WALTON, of Allendale.

Canſt thou, my Muſe, in lofty *verſe* deſcribe 14
The various ſubjects of the numerous tribe
That ſpread the fame of *Dia*'s ſacred page?
Which fire the genius and delight the ſage?
Some ſing of *Buckles*, *Sexton*, *Oak*, or *Boot*, 1. 2. 11. 10.
The *Pepper-box*, a *Bladder*, *Lock*, or *Root*, 4. 6. 9.
Nay nothing, ſomething, *Time* and *Sleep* or *pain*, 12. 13.
The *Plague*, a *Riddle*, and the bearded grain, 15. 8.
Or dear *Bobea*, the *Hand*, nay *Death* and fear, 7. 16.
With old Dame Thrifty's *Drawer*, the timorous *Deer*. 5. 3.
Others, the beauties of the verdant plains,
The blooming nymphs, or faithful rural ſwains,
The ſterling worth of virtue, peace and love:
Nothing's unſung that can the poet move.
Then ceaſe my Muſe, thy humble lays forbear,
Perhaps thy aid I'll court another year.

4. The Old Farmer. By Mr. JOHN MOORE.

Our ſons are grown, of late, quite inſolent and great,
Far from the ways that were their fathers' care;
Inſtead of bread and beer, their wearied limbs to chear,
Tea, *pepper'd* ſoups, and wine, are now their fare.
With *Boots* in neweſt taſte, belt *buckled* round their waiſt,
They'll chaſe a fox or *Deer* midſt *Oaks* and thorns,
With heads as *bladders* light, till *drawing* on of night,
When Sol's bright beam no longer day adorns.
Then homeward as they bend, the eve appoint to ſpend,
Converſe with mirth and glee, till, lo, anon
The reſt tippling god their ſenſes will corrode,
And bring ſad days and *plaguey* head-aches on.

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Oh! would they change this life, and *timely* ſhun all ſtrife,
Their *Hands* employ in *riddleing* their grain,
With joy I then ſhould ſing; elſe to the *Grave* they bring
My hoary *Locks*, with grief and *deadly pain*.

5. The Haſty Wedding. By Mr. W. BOYER, of Leyland.

Bleſſed fortune! happy day!
Drawer of *plaguey pain* away.
In *verſe*, a *riddle* quite profound
I ſet my fair-love to expound;
No *buckle*, *oaken box*, or *boot*,
Would with *time* and ſeaſon ſuit;
But when Godlike Cupid ſpoke,
Soften'd was her heart of *oak*;
She paus'd, conſider'd, thought again,
And found *conſent* did all explain.
Bounce ſprung my heart, I left my chair
Light as *bladder* bell, or *deer*,
So quick I flew to *embrace* my fair.
To *bury* fear and heighten bliſs,
Sure the church is not amiſs;
The Reverend ſoon our wiſhes crown'd,
Love and pleaſure now abound,
Lock'd in joy, with plenty ſtor'd,
Tea and coffee, in a word,
All that this world can afford,
Sweet our moments paſs away,
All appears a ſummer's day.

6. An Addreſs to ———. By Mr. JOHN UNWIN, Wirkſworth.

Dear Emma, deign on me to ſmile,
And not deſpiſe my *lay*,
For once *reward* my anxious toil,
O charming Queen of May!
The neat and ſparkling *buckle* fine,
Adorns your *hand*ſome foot,
Your dreſs and lovely form combine
With elegance to *boot*.
But, ah! the *time* muſt come, fair maid,
When *coffee* you'll give o'er,
When pains your tender beauties fade,
And *riddles* charm no more.
When *dire diſeaſes* thro' each vein
And *veſſel* force their way,
And the ſoul quit this mortal ſcene,
To dwell in endleſs day; [gave
Then, oh! the charms that Nature
Muſt lie within the ground,
In *box* of *oak lock'd* in the *grave*,
Until the trumpet ſound. [pray'r,
Regard your humble ſuppliant's
I'll be for ever true,
To pleaſe ſhall be my conſtant care.
My Emma dear, adieu.

7. An Old Widow's Will. By Mr. ROBERT BAKER, of Terling.

Not far from yonder ſhady grove,
Where *deer* may, free from danger, rove,
Stands a ſmall cot, and in the ſame
There now reſides an ancient dame,
Who, *plagu'd* and weary'd out with *pain*,
For food no appetite can gain,
Longs for the *time*, the *ſexton's* bell
Shall ſound for her long farewell.
Her will I made at her requeſt,
Which was as it is here expreſs'd.
I Mary Hobbs, of Horton-hind,
Of body weak, but ſound in mind,
Do herein both deviſe and give,
Theſe *buckles*, *pepper-box*, and *cuc*,
For ever to my elder ſon,
And thus I have my Will begun.
Now to continue with the reſt,
You'll find *lock'd* in my *oaken* cheſt,
A pair of *boots* and garden ſpade,
Theſe for my younger ſon I've laid:
Next, in the *drawer* you may ſee
A *bladder* full of bohea *tea*,
My coffee-pot is alſo there,
Theſe for my daughter I declare.
Now, my lov'd children, be content
With my laſt *quill* and *teſtament*,
Which I have ſign'd with my *right-hand*,
And hope you'll proſper in the land.

8. On

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8. On Resignation. By Mr. G. BRENTNALL.

Happy the man who knows no fear
When death's sure dart approaches near,
In shape of fever, *plague*, or *stone*;
And this world's pleasures all are flown:
Nor *tea* nor *wine* can please us more,
Nor *time* nor *sleep* our strength restore.
Tho' not the *hand* of *dearest* friend,
His *speech* may yet some comfort lend.
Lock'd in the hope of future bliss,
Which certain and no *riddle* is:
Be patient, soon will *pain* be o'er,
No *boots* nor *buckles* wanted more;
But *oak* shall close the body round,
The *sexton* lay it under ground;
Till then our business is to guard,
And fit the soul for its *reward*.

9. The Happy Man. A Fable. By Mr. JACKSON, of Hutton-Rudby.

In this vain world where discords reign,
Where shall we find the happy man?
The only one, that I can find,
Is he that has a virtuous mind.
A fop, with *buckle* a-la-mode,
Once met a peasant on the road,
In words opprobrious thus said,
Thou *grave-digger*, I'll have thy head.
Those *deer* are mine thou'rt come to [thieve,
Stolen are my *box*, *drawer*, *tea* and *sieve*,
You *bail* in *boots*, at my commands,
To gaol you go with *lock'd*-up *hands*.
Hear me, good sir, the peasant cried,
The truth I never mean to hide:
I am no thief—I none annoy;
Felling yond' *oaks* is my employ;
I labour, and found *sleep* I take,
And every morning, when I wake,
My thankful thoughts direct to heaven,
And pray, thro' *Christ*, to be forgiven.
In steadfast hope no fear of *death*
Will *plague* my mind at my last breath.
This *speech* our Gentleman did *scan*,
And said, thou art a happy man.

10. The Perjured Fair. By Mr. T. BRADBERRY, of Terling.

Beneath a tall *oak's* friendly shade,
When even her landscape had spread,
Supine, a young shepherd was laid,
His *right hand* supporting his head.
No *time* for *repose* now he knew,
Dread anguish his soul did possess,
Despair like a plague did pursue,
And blast ev'ry hope's tiredness.
On Maria he'd frequently call,
The author and cause of his *pain*,
Who triumph'd, alas! in his fall,
Delighted to hear him complain.
Tho' once to his suit she gave heed,
Unlock'd ev'ry wish of her heart,
Nay, vow'd to be his with all speed,
And death, only death should them part.
'Twas then in full vigor he'd rove
In quest of the fleet springing *deer*,
Or *booted* to brush thro' each grove,
If haply some game might be there.
And light as a *bladder* of air,
His heart no unhappiness knew,
And *tea* when he drank with his fair,
How blest ev'ry moment then flew!
But mark the reverse of his fate,
One day to her cot as he flew,
With presents he'd bought her of late
To shew that his heart still was true:
So pretty, so curious and neat,
A *pepper-box* silver all round,
And *buckles*, the work so compleat,
Their equal could scarcely be found.
But as to the parlor he sped,
Where Maria was wont to abide,
He found the false charmer was fled,
And become the beau Strephon's fair bride.
Amaz'd at so perjur'd a maid,
He hop'd he a falsehood was told,
But a note on her *drawers* was laid,
That the *riddle* at once did unfold.
Regardless of life now he lies,
A prey to the deepest despair,
And longs for an end to his sighs,
When the *sexton* his grave shall prepare.

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11. The Oak and Deer. A *Fable.* By Mr. J. STAFFORD.

A sturdy *oak* high tow'ring stood,
Upon the margin of a flood,
Around its root thick bushes spread
And form'd a thick and secret shade.
A *deer*, by hungry dogs pursu'd,
Timely this secret covert view'd,
In which quite spent, and out of breath, [*death.*
He crept, to *guard* himself from
For *worst* fortune proving kind,
He'd left the pack a mile behind;
At fault, the dogs now trace the plain
To find their prize, but all in vain,
Bewailing loud their *case* so hard,
They quit the field without *reward.*
So when disguise our Monarch free'd
From vengeance, by his foes decreed;
They, arm'd with cruel rage, repin'd,
And vow'd revenge could they him find. [gone;
Scarce off the field the dogs were
When thus the *Oak*, with angry tone,
Address'd the timid *roe*, and said,
How dare you *fly* to me for aid?
Vile reptile of the *bladder'd* crew,
Shall I debase myself with you?
Avaunt! my force, my anger fear,
For what can with my might compare?
Plague me no more your life to save
Lest you should find a wat'ry *grave.*
Scarce did this haughty language close,
When, lo! a furious tempest rose,
Whose potent rage, by force unquell'd,
The oak laid prostrate on the field.
By fate's decree he yields his breath,
And *hides* his weakness—where? In death.
The deer, who had his fall survey'd,
Approaching this reflection made.
How void of thought those beings are,
Who fortune's bounty largely share!
To pride themselves in being great,
And scorn the poor in humble state,
Since by one *band* we all are made,
And life's the shadow of a shade.
So said, he to the forest flies,
To feed remote from human eyes.

12. Chloe's Lamentation. By Mr. T. NIELD, Hawarden-School.

And shall I never see my Strephon more? [dore.
Ah! cruel he whom I so much a-
His dress was charming, *boots* and *buckles* shin'd; [rest wind.
His tongue more gentle than the soft-
Say, shepherds, whither's Strephon fled away, [delay?
Say what detains him—why this long
Ah me! I'm doom'd to feel this pungent *pain*,
To love sincere, and not be lov'd again.
What *flattering* hopes once sooth'd my gentle mind, [most kind?
While he was constant, while he was
But now, alas! how alter'd is my state! [fate!
How hard my lot! how fixed is my
Beneath some *oak's* sweet leaves I'll silent moan, [known.
Forget the world, and be myself un-
No fire shall warm nor water cool my breast, [my *rest*,
No *band* intrude, nor tongue disturb,
No *tea* I'll drink, or *riddle* read to cheer,
No *box* of *spices* ever shall be there.
Behold the *deer*, how from her foe she flies, [lies.
To thickest covert, where conceal'd
Just so will I, like *bladder* or like ball, [phon's call;
Fly swift away far from false Stre-
And like fair Echo with continual grief, [human life.
Wear thin the thread that ties frail
Distracting thought! why should I thus be cross'd?
Lock'd up in love and unto reason lost.
Yet there's a *power* who may *reward* the swain [direful *pain.*
With this my *plague*, with this my
I feel my heart swell in my tortur'd breast,
Anon I'm gone, anon I sink to rest.
Toll, *Sexton*, toll, I feel my time draw nigh, [must die.
Farewell, false Strephon, for I soon

ANSWERS to the PRIZE ÆNIGMA, REBUSES, &c.

1. By Mrs. ABIGAIL WINTERBOTTOM, Failsworth, Manchester.

By endless proofs all nature shews a God;
Yet man is aw'd but by affliction's rod:
No Deity he sees but in his fears,
In storms and thunders from the circling spheres.
But did he rightly scan Omnipotence,
Or only judge of things by common sense,
He'd search and find out God in ev'ry place,
Nor be content with speculative trace,
But strive to feel him, and in praise divine
Would lift his soul to heav'n's empyreal shrine,
There mix with Angels chanting to their lyres,
Commingle adoration with their choirs:
Then from irradiant fields of life and space,
Beyond where *sol* performs his annual race;
Return elate with joy to earth again,
Divinely chant his Maker's praise for men,
His tender offspring would employ his care,
He'd view their actions with a mother's fear,
Decypher secrets of that *Hand* supreme,
Whose never changing Goodness is the same,
That duty teach them, both to God and man,
Which alter'd never since the World began.

2. The Miser. By Mr. J. NEEDHAM, of Hinckley.

Iron *Hand*, and iron heart,
With your money loth to part,
You delight the poor to grind,
To heap up gold to leave behind.

3. Against Envy. By Mr. JOHN WARD of Hinckley.

Ye youthful bards of Britain's happy isle,
Let not detraction ever lay her toil:
Flee Envy, tyrant of the human breast,
And dire assailant of all peace and rest:
That inward prejudice to health expel,
And with calm mind direct your *hands* to tell
What secret pleasures inwardly now dwell.

4. Answer. By Mr. J. TOWNSEND, Adderbury, Oxon.

When the great Angel from the etherial sky,
Shall swear an oath by him that can not lie,
That nature's course shall know a final pause,
And dissolution seal her ruling laws;
When the last trump the sleeping dead shall hear,
And ev'ry nation at the bar appear;
Cloth'd in *Christ's* righteousness, O may I stand,
Among the blessed sheep at God's *right hand*.

5. On the great Tribunal. By Mr. MICHAEL WILLIAMS.

Almighty God, grant we all may
Prepare for the great judgment day,
And on our Lord's *right hand* be found,
With glorious angels circled round.
And when he shall pronounce our doom,
May we all hear the sentence "Come
"Ye blessed souls, that kingdom share,
"My Father did for you prepare;
"I hungry was—you gave me meat,
"Was thirsty—and your gifts were sweet,
"I naked was—you cloath'd me free,
"In prison was—you succour'd me;
"For these your deeds divinely bright,
"Inherit realms of endless light."
Lord grant we may partake of this
Reward, this everlasting bliss;
Where glorious strains for ever sing
Praises to heaven's eternal King.

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6. To the Editor. By Mr. A. TAYLOR, of Northowram.

Though young, I'm a lover of all that is good,
And a poet's ambition prevails in my blood.
I often have envy'd your writers their praise
As often attempted to rival their lays:
But always have fail'd in my sanguine desires,
Nor ever could fathom the depth of their lyres.
Till, at last thro' mere spite, ev'ry effort I strain'd,
To find what in Lee's last harrangue was contain'd;
And when the Ænigma I duly had scan'd,
I guess'd the proposer must mean a *Right hand*.
If, *dear sir*, you encourage these feeble essays,
Emulation, in future, may prompt nobler lays.

7. The REBUSES answered. A Character. By Mr. H. MELLANBY.

The *larkspur* fair Phillis to aid,
Her bosom bedecks all around,
Her *necklace* quite brilliant is made,
And her equal is not to be found.
She's the honour and pride of the plain,
The topic in each little cot;
And on valentine eve will each swain
Say she, only she, was his lot.
With the glance of her *eye* she can kill;
Again with her smiles she can cure;
She's handsome, has wit at her will;
Her frowns, say, who can them endure?

Ask both *Lee* and White, they can tell,
Each *bard* strives her favor to gain,
And in truth each fond shepherd knows well,
Her looks can give pleasure or pain.
No *watch* is there hangs by her side,
Or trinkets both costly and bright;
Like *belles* who in cities reside,
And only in grandeur delight.
No, she's humble in manner and dress
(These graces become well the fair);
Her virtues may any man bless:
Then who of her love wou'd not share?

8. The Morning. By Mr. G. BRENTNALL.

A glorious scene's display'd to sight,
How charming is the morning light!
As we survey the smiling spring,
When all around rejoice and sing,
And yonder blazing orb of day
Flies glorious round without delay,
Dispensing blessings rich and new,
Presenting wonders to each view:
And thus with bounty unconfin'd,
Gives health of body, peace of mind;
An emblem of his Maker's love
Who show'rs down blessings from above.
Let joy sit smiling on your face,
Ye greatly favour'd human race;
Admire in humble awe profound,
The num'rous wonders all around.
Consider too how small a part
Can ever enter to your heart.
Had any one a strength of soul,
To grasp the most stupendous whole,
What admiration it must raise,
That soul itself be spent in praise!
If such great things on earth be done,
For mortals underneath the sun;
What glorious wonderous works on high,
For those who reign above the sky!
How they may fly from sun to sun,
And with admiring raptures run
O'er all the heav'ns from star to star,
Admiring nature near and far,
As swift as the bright lightning flies,
And yet more swiftly growing wise,
And kind, and virtuous, good and great,
O what a happy, blissful state!
There may be powers so great, so high,
Possess'd by those above the sky;
That singly comprehend much more,
Than all our pow'rs twice ten times o'er,
And faculties more num'rous far,
Than all our earthly talents are.
Of such a vast exalted height,
No mortal pow'r can bear the sight,
Or ever form idea near
What heav'nly beings see and hear.

A family

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A Family Dedication at the baptizing of a Child in 1753.
By Mr. W. BILLINGTON, of Crick, near Daventry.

US, and our offspring, Lord, receive,
To thy peculiar care;
Thy gracious promise we believe,
And humbly hope to share.
Thus, heavenly Father, at thy call,
With chearful faith we bring
Our dearest treasure, and our all,
A tribute to our King.

Accept us then, for *Jesus'* sake,
Devoted unto thee;—
Assist us some returns to make
Of love and loyalty.
Then may our future days be found
Our happiest ones to prove;
And ev'ry pulse with pleasure bound
While we adore thy love.

W. B. Lapidarius.

The above is inserted to shew Mr. B. that the Diary is open to merit from every quarter; it is by no means, however, our wish to encourage personal altercation, which generally ends in nothing but bitterness, and does no credit to either of the parties. A *piece* on Sunday-schools by Mr. *Thomas Baker*, and *one* on a Death-Watch, by Mr. *J. Rusher*, are left out with great regret on account of their length; and we could not abridge without quite spoiling them.

New ÆHIGMAS to be answered *next* YEAR.

1. ÆNIGMA 450, by Mr. J. SINGLETON, of Bickerstaffe.

Ye virtuous fair, ye gentle virgins, hail!
Let silence reign while sounds my plaintive tale.
Let ev'ry eye emit a pitying tear,
And let this lesson fan each listening ear.
When swains who aim your tender hearts to move,
By oaths profane and melting tales of love,
Sigh on your breasts, a thousand things impart,
And thousands more quite strangers to the heart,
Remember me before you speak them kind,
And let each virtue reason with your mind.
For know, their love is as the changing breeze,
May melt with beauty, the next moment freeze;
'Tis to such conquests that I owe my birth,
My worthless name enough to black the earth.
Let my last parting flattery debar,
And let true virtue be your guiding star.

2. ÆNIGMA 451, by Mr. W. SWIFT, of Stow.

Soon as my name you have made out,
You'll say, and may without all doubt,
I've curst and blest, have been your foe,
And caus'd a multitude of woe;
Have been your friend, by man cares'd,
Altho' I have both curst and bless'd.
I ne'er was born, and yet, 'tis said
That I like your fair love was made.

3. ÆNIGMA 452, by Mr. W. BAKER, of Leyland.

Room, room, ye enigmatic wits,
I am just in my pleasing fits,
Now in humour to display
Usefulness this present day.
Crouding vot'ries, take your fill,
Please your fancy as you will:
Hedge born gentlemen, haste hence,
Flying o'er the bounding fence:
Tippling sots, (a pleasing task,)
Drink me dry the foaming cask:
German doctors, haste, I'm yours,
Kill the world with your fine cures:
Ye beggarian hawking tribe,
Your cheating trade anew describe.
Should any ask why you're so free,
Say you've liberty from me.

4. ÆNIGMA

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4. ÆNIGMA 453, by Mr. W. CRANE, of Quadring.

I am found againſt a cell,
Where a band of chiefs ins dwell,
And if any rudely enter,
They may rue the raſh adventure:
They're remorſeleſs, quick as thought,
Cruſh'd, and ſoon to atoms brought.
Worthy Gents, pray underſtand,
I theſe fearleſs chiefs command.
Ancient records ſtill contain
Accounts of numbers by me ſlain,
How, by a divine decree,
A clear fountain flow'd from me.
More its uſeleſs to reveal;
Who from you can aught conceal?

5. ÆNIGMA 454, by FELIX.

All hail, Diarians I attend,
And from this myſtic tale I've penn'd
My name pray bring to-day:
Where ſecret ſilence reigns I'm found;
For oft, if tumults me ſurround,
They drive me quite away.
Not properly by mortals ſeen,
Nor know they I with them have been,
Until away I flee:
My viſits I withdraw ſometimes,
And to reveal me, all deſigns
Oft fail, without a fee.

6. ÆNIGMA 455, by Mr. R. BAKER.

Bards, our race is ancient grown,
Thro' the Britiſh empire known;
And what man of worth is found,
For wiſdom and bright wit renown'd;
Deep thoughts he'll in me repoſe,
Secrets none beſide me knows.
I don't the great alone befriend;
Poor men on my aid depend,
Be they e'er ſo mean and low,
Frequent favours I beſtow;
Muſt ſometimes to betters fall,
Tho' my rank is over all.
One hint, to finiſh my renown,
My conſtant care's to keep the crown.

7. ÆNIGMA 456, by Mr. PIKE HARDY, of Hickling.

Know, Gents ingenious, I took my riſe,
When our firſt parents dwelt in paradiſe;
Yet ere they found or need, or uſe, in me,
They'd eat the fruit of the forbidden tree.
Invented by a ſhameful after-thought,
With aching hearts, and guilty hands then wrought,
To deck the piteous pair when hid in ſhade,
And of the great Creator's voice afraid,
Was with them then expell'd from Eden's bowers,
Her cryſtal ſtreams, and aromatic flowers.
Yet now from me the fair fear no miſhap,
For I adorn with flowers fair Delia's lap;
Have danced with her at the ſplendid ball, hall.
And her accompany'd to gay Vaux-hall.
Yet ſons of ſwarthy Vulcan me require
When their rude ſtrokes provoke impetuous fire.
To moſt mechanics I am uſeful made
And am a kind tymbol of each trade.
At church on Sundays ſeldom them among,
Nor of the impious ſabbath-breaking throng.
But grace the pious fair at rites divine,
And there like heavenly innocence ſhine.

8. ÆNIGMA 457, by Mr. T. BRADBERRY.

Youthful candidates for fame,
My worth to the world proclaim.
Firſt old *Terra* was my ſire,
Nurs'd and form'd by air and fire;
Works I lay with many more,
As of little worth or ſtore,
Till a man on miſchief bent,
To us came with firm intent;
Choſe from out our num'rous throng
Only thoſe he thought moſt ſtrong.

And

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And with weapon arm'd he flies,
To a cave where, prison'd, lies
A strong stranger, who for gold
Freedom and his country sold.
Let me pause, ere I relate
The horrors of his cruel fate,
Whereby he was doom'd to feel
Unremitting force of steel;
From the wound descends the gore,
Purple streams would stain the floor,
Did he not, of this in fear,
Make us all by turns appear:
And since we have had no food,
Makes us gorge the streaming blood;
Conscious as of wrong he tries
Us to hide from prying eyes,
Till we must attend his beck,
With a chain hung round our neck:
Tortur'd first, and then we're try'd,
Finish'd, ere he's satisfy'd.
Then another's try'd and doom'd,
Three or four perhaps consum'd,
'Till to vengeance rous'd we rise,
Trip his feet or close his eyes;
On the floor he'll vanquish'd fall;
Others for assistance call.
Hence, ye bards, my name declare,
Sure I ne'er attack the fair!

9. ÆNIGMA 458, by Mrs. ABIGAIL WINTERBOTTOM.

To hear and see a mystic scribe,
It may surprize the riddling tribe,
In measures thus to sing;
Yet all I say is very true,
Tho' very likely not all new,
That to your eyes I bring.
To tell my uses and my make,
From whom I did my being take,
Would be a task too great;
Yet well I'm known in ev'ry town,
Am therefore very useful grown,
In all the British state. [long,
I'm sometimes short, and sometimes
At others weak, anon am strong,
Yet all is to one end;
By force I may be mov'd too soon,
But never was the crime my own,
On others I depend.
My form a paradox appears,
For I've no tongue, no eyes, no ears,
Yet am to man a slave;
I bear great burdens for his use,
Whereby effects he such abuse,
As makes him dread the grave.
For man I toil with all my might,
If I do wrong instead of right,
Yet his is all the crime,
Am fed with gold and other meat,
But yet disgorge all that I eat,
Tho' brought from farthest clime,
The Wicked One, at sight of me,
Did with precipitation flee,
If Albion's bard be right:
And he might well be in such fears,
I shew'd him *justice* in the spheres.
So, gentle swains, good night.

10. ÆNIGMA 459, by Mr. J. MOORE.

When whistling plowmen till the
stubborn soil, [smile,
In fertile fields, all nature seems to
By pregnant raine, and *sol*'s refulgent
rays, [his lays
When I spring up, my owner tunes
In thankful strains, and patient waits
awhile, [toil,
Hoping I shall reward him for his
Till he thinks fit to bid his slaves
conspire, [my fire;
Who boldly pluck and take me from
But oh! the hardships I must un-
derge, [then lo!
Till I receive new form, new name;
I come to prove my wondrous worth
and pow'r, [ty tow'r,
The mason help to raise each lof-
When sailors plow the main, their
course I aid, [world I stray'd.
With Cook and Anson round the
When chearful Roger with a nu-
m'rous crowd, [tions loud,
Of nymphs and swains, with acclama-
Attending home their harvest cart
with care, [there.
Amid the chearful throng; lo! I was
Some deeds of pure religion I have
wrought, [brought.
For, many to repentance I have

Even

Even at the lateſt hour when death was near,
I made the ſtouteſt hearts to quake and fear.

11. ÆNIGMA 460, by A LADY, communicated by Mr J.P. GOLDSMITH, Hereford.

To fragrant fields my origin I owe
Where daiſies, cowſlips and the king cup blow,
From theſe extracted by the niceſt art,
In various ſcenes of life I act a part.
Not *Proteus* ſelf ſuch different ſhapes can boaſt,
I'm a grave biſhop, or a ſparkling toaſt,
A downy peach, a tortoiſein its ſhell,
A ſmiling infant, or a crocodile.
In other forms I chaſe dull night away,
And proudly emulate the lamp of day;
But theſe are trifles light as air you'll find,
Compar'd to benefits I yield mankind;
The ſtrongeſt bond the ableſt pen can draw.
Without my preſence would be void in law,
Thoſe ancient charters which your cities claim,
Thoſe gifts of kings, without my aid, are lame,
Without my aid fair commerce too muſt die,
And all your haughty fleets neglected lie.
The ardent lover, and the ſighing fair,
Commit their warmeſt wiſhes to my care.
Secur'd by this converſe without reſtraint,
He fears no father, ſhe no maiden aunt.
Not that my ſtrength will for the taſk ſuffice,
But law and honour that defect ſupplies,
By theſe ſupported, through the world I rove,
Protecting trade, and liberty, and love.

12. ÆNIGMA 461, by Mr. J. JACKSON, of Hutton-Rudby School.

I, ſpectre like, haunt every ſea and land,
Have one limb only, yet of high command,
Mountains I tumble down into the floods
Or ſwell the foaming billows, move the ground.
Caſtles or giants bring I to the ground.
Volcanos ſink and rivers raiſe around.
And when my partner does not ſkilful prove,
Or (in rude tempeſts) wrecks around me move;
I've ſhewn the way to thund'ring wars alarms,
And *injur'd right* I've rectify'd by *arms*.
I Phaeton-like have oft bright *ſol* brought down,
Or from the lunar orb have brought the moon.
I too have made them meet as things were viewd,
And by that means found out the longitude.
I oft have made the ſtars deſcend ſo low,
That in what place I was, they'd plainly ſhew.
Such feats I've done, nor am I e'er afraid,
To ſhew all theſe, if I am juſtly made.
Nay, ten times more you might to me aſcribe,
Diſintereſted, I act without a bribe,
Therefore, by enodation, find my name:
And high record it in the book of fame.

13. ÆNIGMA 462, by Mr. J. STAFFORD, Writing-Maſter, Bingham.

I boaſt a birth, like Venus, from the tide,
And range at will o'er nature's bound leſs wide:
Not Iris' bow more beauty can diſplay,
Nor Flora, in the ſplendid month of May,
Than I, when deck'd in all my rich array.
Soon as Aurora faintly gilds the eaſt,
Or Sol begins his journey to the weſt,
Then I, delighted with the new-born day,
Sport on the lawn, or o'er the rivers play;
Yet don't of rural life alone partake,
For I with *Cupid* frequent viſits make!

Guard

Guard yourselves, fair ones, from the urchin's darts, [hearts.
Lest I convey them to your tender
In paths untrod, tho' I mankind evade, [shade,
And peaceful seek the sylvan secret
Yet I've a namesake known, a mighty host, [post.
Who, in the army, always claims a
Tho' I no martial deeds to boast of have [wave:
Yet, sailor-like, I skim the crystal
For know, where *Neptune* foaming tide commands,
I've guided *Hawk* and *Drake* to distant lands! [bays,
Now tell my name, ye candidates for
And fame on me shall echo forth your praise: [prest
Yet hold, another hint shall be exIn four more lines, and then *probatum est*. [each mould'ring tomb
When the shrill trump shall cleave
With, "Rise ye dead, and unto judgment come," [rove,
I with the blessed messenger shall
And rest with cherubims in realms above.

14. ÆNIGMA 463, by Mr. H. LEE, of Bingham.

With great delight, a noble theme I chuse, [muse,
And for no common cause invoke the
A mighty chief; with rev'rence him receive, [may live.
Who lives to die, and dies that he
Suppose, for certain easily you may,
What in reality you see each day;
Suppose, I say, you're fix'd upon a plain, [reign,
Where folly, pride, and dissipation
And lewdness revels, virtue hides her face, [race:
Or wisdom rests, and folly runs her
'Tis here I rule with arbitrary sway,
The reigning vices of the times pourtray:
Hold out a mirror, by reflection shew,
Those faults that claim their origin from you. [done,
Each laughs at ev'ry foolish thing he's
But each disclaims the bantling, tho' his own: [his brother,
Or thinks himself much wiser than
And ridicules his own faults in another; [quaint grimace,
Whilst noisy laughter shews his
Or harmless Mirth sits smiling on each face. [prove,
Again, attend the tale, see *Myra*
A sad example of unhappy love.
Now soft Compassion spends herself in sighs,
And Pity sympathetic wipes her eyes.
Lo! wounds afresh in purple currents flow, [ago!
Heroes who bled two thousand years
At my command, these horrors disappear [glare,
Faries advance, & hideous spectres
And witches hover in the foggy air.
And those gay scenes which lately shone so bright, [sunk in night.
By strange mechanic pow'r, are
Just so, of erst, in Egypt's evil day
When Amram's holy son with ample sway, [potent wand,
Wav'd round the impious coast his
A cloud of locusts hover'd o'er the land, [devious way,
Waste, like a deluge, mark'd their
And darkness brooded o'er the face of day.

15. ÆNIGMA 464, by Mr. T. BAKER.

High in a temple wrought with human hands, [stands
Where the medallion of Athelia
By some in glitt'ring characters I'm found, [bound:
And blessings numerous in me a-
By dark allusions northern critics write,
And I'm oft liken'd to the polar night.
Yet gentle pity beautifies my face,
Extensive am I, as the boundless space.
Let fancy soar beyond the firey sun,
Or the wide regions where vast comets run,
O higher far! imagination raise,
And hear new worlds declare their Maker's praise:
There,

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There, where no evils no afflictions teem,
'Tis there I'm sov'reign, there I'm high supreme! [grant train,
Here most who seek me are a va-
Who wretchedly my hallow'd name prophane;
But sages say, it is in nature's laws,
Nothing exists without efficient cause, [men offence
And that the ills which give some
Are all their own, and not of providence. [remove
So true it is, I should some grief
Were mortals thoughtful of the life above; [allies
But vain ambition's haughty dark
My suit reject, and lowliness despise.
Behold a slave in high or low estate,
Whose selfish bosom will his pain create, [shade
At war with me, and, fearful that my
Should his dark closet or his cot pervade,
He frowns on my solicitors while here
I oft in private greatest lustre wear.
But leave the monster, turn the willing eyes,
And feast the soul with elevated joys.
While evening philomel pour'd forth her song, [along;
As lov'd Athelia walk'd the fields
Ithra, by death just made a widow, cry'd,
To whom Athelia tenderly reply'd;
Ah, stranger, say what tribulates thine heart? [impart;
Then Ithra weeping did the cause
And lo! Athelia, like an angel bright,
Call'd me from heav'n, that I might both delight.
With me and riches blest, Athelia fair [despair,
Thus sought distress, and banish'd sad
Now sing, ye Muses, sound your highest lyres, [spires.
And hail the genius that my soul in-

PRIZE ÆNIGMA, by Mr. J. WALTON of Allendale.

Of old, when science spent the midnight oil,
And Roman arts and arms amaz'd the spoil
Of nations conquer'd, and till then unbroke
To drop the spear, and bear the slavish yoke
Of tyrants: pity we the barbarous race,
Manners uncouth may shew an honest face.
'Twas then, that no obstructions might impede
The wealth of Rome, or blast each glorious deed,
I lent my aid her war-like sons among,
To keep in order the well tutor'd throng.
But hold, why roam'st thou thus at large, my Muse,
Insult us not, nor our fair isle abuse:
Come tune thy lays, and sing in lofty strains
The pride of all that tread the British plains;
The martial train, though armed cap-a-pee,
And all in turn will trust themselves to me;
On me the king for safety oft relies,
And all who know me still my virtues prize.
Since good Queen Bess the British sceptre sway'd,
And science all her hidden stores display'd;
I've serv'd each honest tradesman in his sphere,
A servile drudge to vend his specious ware;
So grac'd with law, divinity, and trade,
The mere mechanic, and the founder'd jade,
Known to all ranks, in whatsoever station,
To bear the debts and burthens of the nation;

A perfect

A perfect mirror to the greedy race,
Who give but to receive with better grace.
No profit I can from such objects find,
Who, proud above the level of mankind,
Live by the sword, and with contemptuous sneer
Look down, with up-turn'd nose and haughty jeer,
Upon the country gentlemen or knight,
Who in the paths of virtue take delight.
And those, and these, and all the active crew
My wonted favours share. So, Gents, adieu
No life I have, nor ever had, 'tis true.

Other new Ænigmas by Messrs *Brentnal*, Φιλος-σοφιας, *Felix*, *Needham*, *O'Rilley*, *Peat*, *Townsend*, and *Williams*, are obliged, through want of room, to be deferred till another opportunity.

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1. REBUS, *à-la-mode de Paris*, by Mr. J. RUSHER.

Gripe, the miser, fills my *first*;
Whif, the toper, stuffs my second;
And if either fall and burst,
Tis untimely music reckon'd.

Mac, the stroller, swells my whole,
Misers feel their pulses quicker,
Topers sing, dance round the bowl,
And cut capers high in liquor.

2. REBUS, *à-la-mode de Paris*, by JUVENIS of Greenwich.

An emblem you my *first* will surely find,
Of double solid signification,
The one a blessing to a virtuous mind,
T'other a curse to all duration.
My *second* is a place of known resort
For beasts, for men, for goddess chaste and fair,
'Twill furnish avenues for manly sport,
And healthful prove to those who're frequent there.
My *whole's* the name of a noted Hampshire town,
Which for good ale and beer is renown.

3. REBUS *à-la-mode de Paris*, by Mr. W. SWIFT.

My *first*'s what fair Phœbe has long wish'd to be,
The wishes of Colin with her's do agree.
My next's a protector at midnight and morn,
Which Colin has work'd for, and *Phœbe* has worn,
My *whole* each fair one's wish engages,
Both young and old, and of all ages.

4. REBUS, by Mr. H. MELLANBY, of Stockton.

A glorious body is my *first*,
And he my *second* rules;
And they who don't revere my *whole*
Undoubtedly are fools.

5. REBUS by Mr. Serj. SIMKIN, Northampton Militia.

My *first* a servant stout and bold,
And pleasure yields to young and old,
My *second* oft annoys the thief,
To make old Gripus founder sleep,
The *whole* I've borne as a true friend,
My king and country to defend.

6. REBUS, by ΦΙΛΟΣ-ΣΟΦΙΑΣ, of Yarmouth.

A deity supreme old Saturn's son,
A Grecian king whom Ida's did outrun
The wretch with thunder slain by mighty Jove,
A flying figure which all school-boys love;
A lovely maid who to a shrub was turn'd,
He that in solving riddles was most learn'd,
And Amphion's wife, who to a stone mourn'd.
Put the initals in their proper place,
They'll shew the man whose works the Diary grace.

LXXVI. By *Juvenis*, of Greenwich.

What physical reason can be given, why the *Jews* by the Mosaic law were forbidden to eat swines flesh?

LXXVII. By Mr. *Burrow*.

What is the reason that none of the Chaldeans could read the hand-writing on the wall, though wrote in their own language?

LXXVIII. By Mr. *Burrow*.

What is the reason that the 11th verse of the 10th chap. of Jeremiah is written in Chaldee, when all the rest of the same book is in Hebrew?

LXXIX. By Mr. *John Ward*.

To what does St. Paul allude, Rom. vii. 24, "O wretched man that I am! who shall deliver me from the body of this death?"

LXXX. By Mr. *T. Peat*.

How, in Gen. i. is the creation of light on the *first* day to be reconciled with making the luminaries on the *fourth*? As this has puzzled many, it may perhaps be of some utility.

LXXXI. By Mr. *John Needham*.

Jehoahaz son of *Josiah* was but 23 years old when he began to reign, and he reigned three months in Jerusalem, 2 Kings, xxiii. 30, 31; and yet his younger brother Eliakim (whose name Pharaoh-necho turned to Jehoiakim) who succeeded him, is said to be 25 years old when he began to reign, v. 34, 36. so that, according to this account, Jehoiakim seems to be about two years older than his elder brother. How can these be reconciled?

LXXXII. By Mr. *Alex. Rowe*.

What is the cause of the collection of moisture in the mornings upon glass windows, in the lodging rooms, when the air is cold or frosty?

LXXXIII. By Mr. *J. Ward*.

What is the cause of that disagreeable sensation in the teeth, called *setting them on edge?*

LXXXIV. By Mr. *Jackson* of Hutton-Rudby.

When a person is boiling linseed (or other) oil, if it should take fire, and he throw water into it, it will break out into a far greater flame: now as water is known to extinguish fire, what is the reason of this?

LXXXV. By Mr. *J. Stafford*.

A smith, when heating his iron, will frequently take it out of the fire and roll it in sand, then heat it again, before he thinks it proper to beat upon the anvil: upon what principle does he do so?

LXXXVI. By Mr. *H. Mellanby*.

If you make a piece of iron or steel red-hot, and then rub it with a roll of brimstone (beginning at the end) the metal will, in a very singular manner, waste away: what reason can be assigned for this?

We sincerely regret the loss of the worthy and ingenious Mr. *C. Wilkinson*, late Master of the Academy in Nottingham, and the *Academicus Nottinghamiensis* of this *Diary*, who died of a decline last Winter.

ANSWERS

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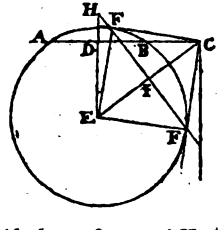
Answers to the Questions proposed last year.

1. Quest. 566, answered by Mr. J. Jewell, Master of Bideford School, Draftsman, Bookseller, &c. Devon.



Let ABC be the line cutting the given circle whose centre is E in B and A, from any point C therein draw the tangents CF,CF, thro' F,F draw FH meeting ED, which is perpendicular to AC, in H, then will H be the same given point, let the point C be where it will in AB produced.

For the angles at D and I being right, the points HDIC are in a semicircle, and the rect. ED.EH=EI.EC, but EI.EC= the square on EF which is given or constant, and ED is constant, wherefore EH must also be constant, and H always the same.

The same answered by Mr. James Young, of Prudhoe.

Let E be the centre of the given circle, CA the cutting line, CF,CF tangents, drop the perp. ED, which produce till it meets a line drawn thro' the points of contact F,F in H. Now we have to shew that the point H is always the same wherever in AB we take the point C.

Join CE, the triangles ECF and EIF are rectangular and similar, so EC:EF::EF:EI, and the triangles ECD, EIH are similar, and EC:ED::EH:EI, conseq. ED:EF::EF:EH, but ED and EF are always the same, and therefore EH will be always the same.

Messrs. *Burrow, Gough, Howard, J. Jackson, W. Jackson, Metcalfe, Oliver, Sampson, Saul, Taylor,* and *White,* also favoured us with ingenious answers.

2. Quest. 567, answered by Mr. W. Jackson, of Tottenham.

The given proportion denotes a right angled triangle; let therefore $3x$ be the base, then $4x$ and $5x$ will be the hypothenuse and perpendicular, and, by the question, the cube of three-fifths of the base $= \left(\frac{3x}{5}\right)^3 = \frac{3x \times 4x}{2}$, whence $x \times 3 = 83\frac{1}{3} =$ the base, $111\frac{1}{9} =$ the perp. and $138\frac{8}{9} =$ the hypoth. the area being $4629\frac{17}{27}$. If $4x$ be called the base, then the three sides will be, $35\frac{5}{12}$, $46\frac{7}{8}$, and $58\frac{1}{24}\frac{9}{2}$, area $823\frac{49}{144}$, but 18, 24, and 30, area 216, if the hypoth. be base. And had the triangle been oblique, an equation might have been formed, and the sides found, with the same ease.

We have also been favoured with answers from Messrs. *Allwood, Burrow, Cavil, Canfield, Cove, Cock, Cunliffe, Dees, Ems, Evans, Gough, Harru, Higham, Howard, J. Jackson, Jewell, King, Lawrence, Lowry,*

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Lowry, Mabbott, Mason, Metcalfe, Oliver, Parks, Rowe, S. S., Sampson, Saul, Surtees, Taylor, Walton, Waugh, White, Williamson, and *Young*; and return them all thanks.

3. QUEST. 568, answered by Mr. ADAM OLIVER, of Alnwick.

If (in the fig. at p. 36 of the last Diary) A and B represent the lamps, and D and C the points where the observer stood; and the light from any luminous body being reciprocally as the square of the distance therefrom, we have $5:3::AD^2:DB^2$, and $7:6::AC^2=AD^2+DC^2:CB^2=DB^2+DC^2$, ∴ by division $1:6::AD^2-DB^2=AC^2-CB^2:CB^2$, and $AD^2=\frac{1}{6}DB^2$, conseq. $1:6::\frac{1}{6}DB^2:CB^2$, or $1:4::DB^2:CB^2$, conseq. $1:3::DB^2:DC^2$ and $DB=DC\sqrt{\frac{1}{3}}=440\sqrt{\frac{1}{3}}=$ yards 254.0341 and $AD=327.9566$, or yards $581.9907=$ the distance of the lamps required.

Mr. *Wm. Jackson* observes, that this is in effect the same with prob. 25 in Simpson's Algebra, p. 337, the ratio of the segments of the base being as $\sqrt{5}:\sqrt{3}$, and that of the sides as $\sqrt{7}:\sqrt{6}$.

And in like manner is the question answered by Messrs. *Burrow, Cavill, Canfield, Cock, Cunliffe, Dees, Evans, Gough, Howard, W. Jackson, Jewell, King, Mabbott, Mason, Metcalfe, Rowe, S. S., Sampson, Surtees, Taylor, Walton, Waugh, White,* and *Young*.

4. QUEST. 569, answered by Mr. RICH. WAUGH, Bushblades.

By substituting a^2 for x, and v^2 for z, in the given equations, and putting $5845=m$, and $69984=n$, we have $v^6a^3+a^2+v^2=m$, also $a^4v^6\times av=n$, ∴ $v=\sqrt[7]{\frac{n}{a^5}}$, which placed for v, gives $\sqrt[7]{\frac{n}{a^5}}^5\times a^3+a^2+\sqrt[7]{\frac{n}{a^5}}^2=m$; solved $a=2$, and thence the required numbers are $x=4$ and $z=9$.

The same answered by Mr. J. JEWELL.

If $y=z\sqrt{x}$, we have $y=\sqrt[3]{5845-x-z}$; hence $y=18$ nearly, and $y^4\sqrt{\frac{x}{z}}=69984$, or $\sqrt{\frac{x}{z}}=\frac{69984}{104976}=\frac{2}{3}$ nearly, hence $\frac{x}{z}=\frac{4}{9}$, but if $x=4$ and $z=9$, $y=18$ correctly, and $\sqrt{\frac{x}{z}}=\frac{2}{3}$ correctly, consequently 4 and 9 are the numbers sought.

The same by Mr. A. ROWE, of Reginnis.

It is evident by the quest. that $x^{\frac{3}{2}}$ must be a whole number, and by a few trials x will be found either 4 or 9, taking $x=4$, substituting, and reducing, the first equation gives $z^3+\frac{25}{8}=730\frac{1}{8}$, hence

we

we obtain $x = 9$, consequently 4 and 9 are the numbers required.

Answers were also given by Messrs. *Burrow, Cavill, Cunliffe, Dees Evans, Gough, J. Jackson, Mabbott, Metcalfe, Oliver, Sampson, Saul, Surtees, White, Walton*, and *Young*.

5. QUEST. 570, answered by Mr. J. MABBOT, Tadcaster.

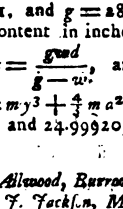
Let x, $11 + x$, and $\sqrt{11x + x^2}$, represent the diameters and depth, then by mensuration, $121 + 33x + 3x^2\sqrt{11x + x^2} \times 51 \times .2618 = 17.344788 \times 282 \times 231$, put $p^2 = 11x + x^2$, and we have $p^3 + \frac{121}{3}p = 28207.7867$, from which equation, by *Cardan's* rule, $p = 29.9993$, or $x^2 + 11x = 900$ nearly, $x = 25$ nearly the less diameter, 36 nearly the greater, and 30 nearly the depth.

The same by Mr. E. EMES, *jun.* of Allhallows-lane.

Let $2a = 11$, then $x + a$ and $x - a$ are the diameters, and $\sqrt{x^2 - a^2} =$ the depth $= y$, $m = .7854$, $w = 231$, and $g = 282$, the divisors for wine and ale gallons, and $s =$ the content in inches. Then per quest. $\frac{s}{w} - \frac{s}{g} = 17.344788 = d$, and $s = \frac{gwd}{g - w}$, and by a known theorem $s = \frac{1}{3}y \times \overline{3mx^2 + ma^2} = my^3 + \frac{4}{3}ma^2y$, hence $y = 29.9991923$ the depth, also 35.9992056 and 24.9992056 the diameters required.

And nearly thus is the answer given by Messrs. *Allwood, Burrow, Cavill, Camfield, Cock, Cunliffe, Dees, Evans, Gough, J. Jackson, Mason, Oliver, Parke, Rowe, S. S., Sampson, Saul, Surtees, Taylor, Walton, Waugh, White, Williamson*, and *Young*.

6. QUEST. 571, answered by Mr. J. HOWARD, of Carlisle.



Take the line $AB = a$, and AX perp. to $AB = x$, draw BK parallel to AX, join BX, perp. to which let fall AP, through P draw VR parallel to AX meeting XR, drawn parallel to BA, in R. Then $AX^2 : AB^2 :: PX : PB :: AV = XR : BV$, and by composition $AX^2 : AX^2 + AB^2 :: XR : AB$, which being equivalent to the given equation, shews that the point R is in the curve, and as the point R always approaches BK, therefore BK is the asymptote.

For the rest of the solution, see *Emerson* on Curve Lines, B. II. Sect. iii. Prop. 12, Examp. 3.

The same answered by Mr. Jos. SAUL.

From the given equation of the curve it is evident that when $x = AX$ is infinite, $y = RX = a = AB$, hence it appears that if AB be taken perp. to AX and $= a$, BK drawn parallel to AX will be the asymptote.

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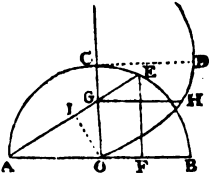
Again, from the equation of the curve, $\dot{y} = \frac{2a^3 x \dot{x}}{\sqrt{a^2 + x^2}^5}$ and $\ddot{y} = \frac{2a^3 \dot{x}^2}{\sqrt{a^2+x^2}^5} \times \sqrt{a^2 - 3x^2}$, conſeq. when $3x^2$ is greater than a^2, the curve will be concave, but when leſs it will be convex towards its axis, and the point of contrary flexure will be where $3x^2 = a^2$.

And nearly in the ſame manner is the anſwer given by Meſſrs. *Burrow, Cock, Cunliffe, Gough, J. Jackſon, W. Jackſon, Jewell, Oliver Parnel, Rowe, Sampſon,* and *White.*

7. Quest. 572, anſwered by Mr. Tho. Cock.

Let fall the perp. OI on AE, and let OG $= x$, GH $= y$, and AO $= a$, then AG $= \sqrt{a^2 + x^2}$, and AI $= \frac{1}{2}$AE $= \frac{a^2}{\sqrt{a^2 + x^2}}$, and by ſimilar triangles $\sqrt{a^2 + x^2} : x :: AE : EF = GH = y = \frac{2a^2 x}{a^2 + x^2}$ the equation of the



curve, and conſequently $y\dot{x} = \frac{2a^2 x \dot{x}}{a^2 + x^2}$ = the fluxion of the area, the fluent of which when truly corrected (ſince x and y begin together) will be $a^2 \times$ H. L. $\frac{a^2 + x^2}{a^2}$ the area required. CD parallel and equal to OB is the greateſt ordinate of the curve, and OC produced will be the aſymptote. When $x = a$, the area $= aa \cdot$ hyp. l. of 2. = the area CDHO.

And thus the anſwer is given by Meſſrs. *Burrow, Cunliffe, Dees, Gough, Heward, J. Jackſon, Jewell, Parnel, Rowe, Sampſon, Saul, Taylor, Waugh, Taſſo,* and *White.* The curve is the *hyperboliſm* of the circle, and of Sir Iſaac Newton's 62d *ſpecies.* And the curve in the preceding queſtion is of the 63d *ſpecies.*

8. Quest. 573, anſwered by Mr. N. Parnel.

Let N be the north pole, NE and NQ quadrants, A the port from which the ſhip ſailed, AB the rhumb, or diſtance ſailed, and EQ an arc of the equator, or the difference of longitude

Put c = the natural tangent of BAQ the angle of the ſhip's courſe 22°½, g = that of 51° 38′ 9″, T = the logarithmic tang. of 19° = half AN, and x = that of half BN; then, by Martin's Math. Inſtit. vol. II p. 283,

we

we have $\frac{100000}{E} \times \overline{x - T} = EQ = BE$ per question expressed in minutes or miles, but BE is the complement of BN, hence by trial, BE = 17° 48′ nearly, the latitude to which the ship must sail; and as cof. 22° 30′ : 2051.5 = the diff. of latitude :: rad. : geographical miles 2220.527, the required distance.

The same by Mr. J. JACKSON, of Hutton-Rudby School.

Put x = the proper difference of latitude, and a = 52° N. the latitude left, b and c the sine and cof. of the course S.S.W., m = the meridional difference of latitude, and $a - x$ the latitude arrived in; then, by Mercator's sailing, as $c : m :: b$: the difference of longitude $= \frac{bm}{c} = a - x$ per quest. hence x = 2052 min. and as c : 2052 :: radius : 2221 miles nearly = the required distance.

The same answered by Mr. ALEX. ROWE.

Suppose the ship arrived in latitude 17° 48′ N, then the meridional parts for lat. 52° are 3665, and those for the lat. arrived in 1085, their diff. is 2580, and as the natural tangent of the course 22° 30′ = .4142136 : 1 :: 17° 48′ = 1068′ : 2578.38 = the meridional diff. of lat., which subtracted from 2580 leaves 1.62, an error too little. Now admit 17° 49′ to be the latitude arrived in, by operating as before we find an error of 2.28 too much, and as the sum of the errors 3.9 : the difference of the suppositions 60″ :: 1.62 : 25″, therefore 17° 48′ 25″ is the latitude arrived in, and conseq. the distance sailed = miles 2220.618, as required.

And thus the answer is given by Messrs. *Burrow*, *Dees*, *Gough*, *Oliver*, *Sampson*, *Saul*, *Suttees*, and *White*. Ingenious answers by *great circle sailing* are also given by Messrs. *Cavill*, *Evans*, *Jewell*, *Waugh*, and *Young*.

9. QUEST. 574, answered by Mr. J. HOWARD, of Carlisle.

By Simpson's Geometry, iv. 18, the sides of the triangle are in the ratio of the segments of the base made by the line bisecting the vertical angle, and therefore by composition and division as the diff. of the sides : their sum :: the diff. of those segments : the base of the triangle; but as both the difference of the sides and the difference of their squares are given, the sum of the sides is also given, and conseq. the sides themselves, and by the above proportion the base also: hence the three sides are given to construct the triangle.

The same by Mr. RALPH DEES, of Newcastle.

Let a, b, and c, be the three differences as per quest., then $c \div b$ = the sum of the sides, and $\frac{b^2 + c}{2b}$ and $\frac{c - b^2}{2b}$ are the two sides; $b : a$ :: the greater side : the greater segment $= \frac{b^2 + c}{2b^2} \times a$, and $c - b^2$

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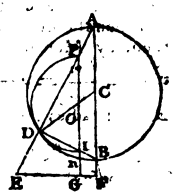
$\frac{c-b^2}{2b^2} \times a =$ the less, hence the base $= \frac{ca}{2b^2}$, and thus we have theorems for all the sides. And according to one or other of these methods nearly, is the problem resolved by Messrs. *Allwood*, *Burrow*, *Cavill*, *Cansfield*, *Cock*, *Cunliffe*, *Gough*, *J. Jackson*, *W. Jackson*, *Jewell*, *Mabbott*, *Oliver*, *Parnel*, *Rowe*, *S. S.*, *Sampson*, *Saul*, *Surtees*, *Waugh*, *White*, and *Young*.

10. Quest. 575, answered by Mr. T. White.



Analysis. When the rect. under PE and PD is equal to the square on a given line R, thro' C the centre of the given circle let fall AF perp. to the given line EF, thro' the given point P draw AE, also draw PG parallel to AF, or generally PG perp. to EF. Suppose the thing done, and that DP : R :: R : PE, erect DI perp. to PE, cutting PG in I, then because the angles at D and G are right, the points D, E, G, I, are in a circle, consequently the rectangle PI.GP = the given one DP.PE, but GP is given, and conseq. PI and the point I are given; but because the angle PDI is right, the point D is in a semicircle whose diam. is PI. Hence this construction: on PG take PI, a fourth proportional to PG, PE, PD, and on the diam. PI describe a circle, and, through the point where it cuts the given one, the line PDE must be drawn; that is, when the circles cut there will be two such lines, and when they touch there will be but one, and the rectangle then a minimum, because beyond this limit the thing is impossible. And in the present case of the minimum, since the two circles touch at D, DP must pass through A, DI through B, and DO through C: hence the particular construction is also manifest for the minimum.

The answer, by Mr. J. Sampson, of Old Hutton.

Construction. Draw the diam. AB perp. to the given line E, and through P draw ADE, the line required.

Demonstration. From P let fall PG perp. to EF, draw DC and DB cutting PG in O and I; then, since AB is parallel to PG, and AC = DC = BC, we have PO = DO = IO, and PDI being a right angle, a semicircle on the diam. PI will touch ADB in D, and it is evident that PI is the shortest line on which a semicircle can be described to interfere with the circle ADB, but the triangles PDI, PGE, being similar, the rectangle DPE = IPG, which will evidently be a minimum when PI is a minimum, as by construction.

If the rectangle DPE be a given magnitude, make IPG equal to it, and a semicirc. on the diam. PI will (in all possible cases) determine D.

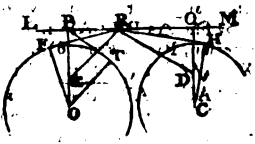
The same otherwise, by Mr. Ja. Cunliffe, of Bolton.

Make IG perp. to EF, and describe a circle whose diam. is on PG, touching the given one in D, draw PDE, and it is done. For PE.PD = PG.PI

= PG.PT is less than the rectangle PG.Pn, or any other: conseq. PE is the line required.

Other answers were given by Messrs *Burrow*, *Dee*, *Gough*, *J. Jackson*, *Howard*, *Parnel*, *Sherwin*, *Saul*, *Rowe*, and *Taylor*.

11. Quest. 576, answered by Mr. J. Gough, the *Proposer*.



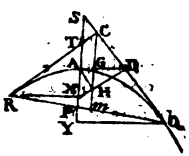
Constr. From O and C, the centres of the two given circles, let fall the perp. OP and CQ to the line LM given by position, and having drawn tangents from P and Q to the circles, set off PE and DQ equal to those tangents respectively; from the points E, and D to the right line LM draw ER and DR (by Simpson's Geometry, prob. 12. 11, 15, or 13), such that the sum of their squares, or the diff. of their squares, their sum or their difference, or their ratio, may be that given; then from R draw the two tangents RF, RH, which are those required.

Demonstr. Draw the tangent PT, and OT, OF, CH, then because $PE = PT$, $PE^2 = PO^2 - OF^2$, but $RF^2 = RO^2 - OF^2 = PO^2 + PR^2 - OF^2 = PR^2 + PT^2 = PR^2 + PE^2 = ER^2$, consequently $RF = ER$; and in the very same manner it appears that $RD = RH$, and consequently R is the point required.

Scholium. The solution contains the demonstration of this curious *proposition*; if from the centre of a circle a line be drawn perpendicular to another which is given in position, and from their point of intersection a line set off along the said perp. equal in length to a tangent to the circle from the said point of intersection, will give a point thereon, from which if a line be drawn to that first given in position, it will be equal to a tangent drawn from its extremity to the given circle.

Mr. *White* has very ingeniously given the geometrical analysis of this question: he also proposed a similar quest. last year. And Mr. *Sampson* has given a true algebraical answer.

12. Quest. 577, answered by Mr. T. White.



Analysis. Let fall the perp. QY and RX, produce RT till it cuts SQ in C, and draw Cm parallel to the principal diameter AY of the parabola, which bisects RQ in m, take $AP^2 : L^2$ in the given ratio of the triangles SQP, TRP, then we have $RP^2 : Rm^2 = Qm^2$ :: the triangle TRP : the triangle $CRm = CmQ$, and as $\triangle\ CmQ : Qm^2 = Rm^2 :: \triangle\ SQP : QP^2 :: \triangle\ TRP : RP^2$, therefore $\triangle\ SQP : \triangle\ TRP :: QP^2 : RP^2 :: QY^2 : RX^2 :: AY : AX :: AP^2 : L^2$, by Hamilton's Conics, 3, 4, $AX.AY = AP^2$, ∴ $AX = L$. Since therefore the point X is given, Y is also given, and the whole is evident.

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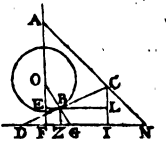
The ſame anſwered by Mr. J. Gough, of Kendal.

Draw AD perp. and equal to AP, and divide it in G in the given ratio of the triangles, at G erect GD perp. to AD and equal to a mean proportional to AG, DG; thro' H draw DX meeting AP in X, draw the ordinate RX, and thro P draw RQ, and the thing is done.

For join AH and draw the ordinate QY, then the triangle DHA is right angled at H, and by conſtruction DG : AG :: $DH^2 : AH^2$, and by ſim. $\triangle$s DH : AH :: DA = AP : AX, and AY.AH = AP.DH (Emerſon, Parab. Prop. 6), $\therefore$ AY : AX :: $DH^2 : AH^2$, and QY : RX :: $\sqrt{AY} : \sqrt{AX}$ :: DH : AH, but TA = AX and SA = AY, $\therefore$ SP.AH = AP.$\overline{AH+DH}$, and TP.DH = AP.$\overline{AH+DH}$, therefore SP : TP :: DH : AH, and SP.QY : TP.RX :: $DH^2 : AH^2$ :: DG : AG :: $\triangle$ SQP : $\triangle$ TRP.

Anſwers were alſo given by Meſſrs. *Cunliffe*, *J. Jackſon*, *Rowe*, *Sampſon*, *Taylor*, and *Young*.

13. Queſt. 578, anſwered by Mr. T. White, of Dumfries.



Let AF be a perp. DN paſſing through the centre O, join OB, which produce to G, thro' B draw BZ perp. and EL parallel to DN, and CI parallel to AF, then, by ſim. $\triangle$s, as FZ = EB : OB :: BZ : DB, and by the queſt. $m : n$ :: DB : BC; moreover, as OB : OE = OF − BZ :: BC : BL, and $m : n$ :: BZ : CL, therefore $CI = BZ + CL = 1 + \frac{n}{m}.BZ$, and $NI = FN - FZ - \frac{n}{m} \times \frac{BZ}{FZ} \times \overline{OF - BZ}$, but by ſim. $\triangle$s AF : FN :: $CI = 1 + \frac{n}{m}$. BZ : IN, which analogy gives the equation $FZ^2 + \frac{FN}{AF} \times \frac{m+n}{m} \times BZ \times FZ - \frac{n}{m} \times BZ^2 - FN \times FZ + \frac{n}{m} \times OF \times BZ = 0$, and deſcribing the conic ſection, of which this is the equation, to the abſciſſa and ordinate FZ and BZ (ſee Mac Laurin's Algebra, p. 336, &c.), it will interſect the given circle in the point B, to which a tangent being drawn, will have the property required.

Or exterminating either FZ or BZ by the equation for the circle $OB^2 - FZ^2 = OE^2 = \overline{OF - BZ}^2$, and then tranſpoſing and ſquaring both ſides of the above equation, there will reſult a biquadratic, whoſe roots can therefore be found, and conſequently the problem determined.

The ſame anſwered by Mr. J. Sampson.

From any point C in one of the right lines given by poſition, draw the

the tangent CB, and on CB produced take CD to CB in the given ratio, then assume another point in the same line AN, draw another tangent and produce it in the same given ratio, &c.; in this manner describe the curve which is the *locus* of the point D, and from the point where this *locus* intersects the other given line draw a line as DBC to touch the circle, and it will be that required. And this will also hold when DN is not a right line; and the above curve may thus be described with nearly as great facility as a conic section can be drawn. The method also holds when the circle itself becomes any curve to which the method of drawing a tangent is known.

Algebraically, by Mr. A. Rowe.

Let OB be the circle, and NC, ND, the lines given in position, and let DB : DC :: $m : n$, put OB $= a$, OF $= b$, FN $= c$, AF $= d$, EB $=$ FZ $= u$, OE $= v$, EF $=$ BZ $= w = b - v$, then by the general properties of similar triangles DB $= \frac{aw}{u}$, DC $= \frac{naw}{mu}$, DI $= \frac{nvw}{mu}$, EL $= \frac{a^2}{v} - v$, LF $= b - \frac{a^2}{v}$, DF $= \frac{bv - a^2}{u}$, IN $= \frac{cnw}{dm}$, FI $= c - \frac{cnw}{dm} =$ DI $-$ DF $= \frac{nvw}{mu} - \frac{bv}{u} + \frac{a^2}{u} = \frac{nvw}{mu} - \frac{bv}{u} + \frac{v^2}{u} + u = \frac{nvw}{mu} - \frac{vw}{u} + u = \frac{n}{m} - 1 \cdot \frac{vw}{u} + u = \frac{pvw}{mu} + u$, and squaring both sides $c^2 - \frac{2c^2nw}{dm} + \frac{c^2n^2w^2}{d^2m^2} = \frac{p^2v^2w^2}{m^2u^2} + \frac{2pvw}{m} + u^2 = \frac{p^2a^2w^2}{m^2u^2} - \frac{p^2w^2}{m^2} + \frac{2pvw}{m} + u^2$; therefore $c^2u^2 - \frac{2c^2nwu^2}{dm} + \frac{c^2n^2w^2u^2}{d^2m^2} = \frac{p^2a^2w^2}{m^2} - \frac{p^2w^2u^2}{m^2} + \frac{2pvwu^2}{m} + u^4$, and substituting $a^2 - b^2 + 2bw - w^2$ for u^2, and $b - w$ for v, this equation becomes a biquadratic, in which the value of the root w being found, will give the point B required.

And nearly thus is the answer given by Mr. *Gough*.

14. Quest. 579, answered by Mr. W. Sherwin, the Proposer.

It is evident that the required velocity is indefinitely near to that which would be acquired by an heavy body in descending to the earth from that point, in a right line with the earth's and moon's centres, at which it would be suspended by their contrary attraction. Put $y =$ the distance of that point from the earth's centre, ratio of the quantities of matter in the earth and moon as 40 : 1, as $m : n$, and $d =$ the distance of their centres, then $\frac{n}{d-y^2} = \frac{m}{y^2}$, and $y = \frac{d\sqrt{m}}{\sqrt{n}+\sqrt{m}} = 207233.5057$ miles, the distance from the earth's centre at which a heavy body would hang in equilibrio.

Now put $v =$ the velocity acquired in falling from the said point of equal attraction between the earth and moon, to the distance x from

from the earth's centre, $2a$ = the velocity acquired in falling from rest during one second of time at the earth's surface, and b = y above, then $\frac{n}{d-x^2}$ is as the attractive force of the moon at the distance $d-x$ from her centre, and $\frac{m}{x^2}$ is as that of the earth at the same point, $\therefore \frac{m}{xx} - \frac{n}{d-x^2}$ is as the accelerating force at the ball, by the laws of motion $v\dot{v}$ is as $-\frac{m\dot{x}}{xx} + \frac{n\dot{x}}{d-x^2}$, and the correct fluent $\frac{1}{2}vv$ is as $\frac{m}{x} - \frac{m}{b} + \frac{n}{d-x} - \frac{n}{d-b} =$ (when $x = r$ and $b = r+a$) $\frac{m}{r} - \frac{m}{r+a} + \frac{n}{d-r} - \frac{n}{d-r-a}$, whence, as the square root of this last quantity : $2a$ :: the square root of the correct fluent above : 36454 feet (nearly), the velocity per second required.

The Answer, by Mr. J. Govon, of Kendal.

It is presumed that the ratio of the quantities of matter in the earth and moon were meant to be as 40 : 1, and not their densities; and there must be a point between them where their attractions are equal, which will be readily found to be at 20733 miles $= b$ from the earth's centre. From the laws of motion, the velocity requisite to carry a body from the earth's surface to this point will be the same as that acquired by falling from the same point to the surface, and may be found thus:

Let $a = 24000$, $x =$ any distance from the earth's centre, $v =$ the velocity at that distance, $r = 4000$, and $s =$ the force of gravity at the surface; then will $a - x =$ the distance from the moon's centre, and as $x^2 : r^2 :: s : sr^2x^{-2} =$ the earth's force at x distance, and the moon's force there $= \frac{sr^2}{40 \times \overline{a-x}^2}$, and conseq. the force drawing the body towards the earth is the difference of these, whence $-vr^2x^{-2}\dot{x} + \frac{sr^2 \cdot \overline{a-x}^{-2}\dot{x}}{40} = v\dot{v}$; and when $x = b$, $v = 0$, therefore the correct fluent, when $x = r$, gives $v = r\sqrt{\frac{2s}{r} - \frac{2s}{40 \cdot a-r} - \frac{2s}{b} + \frac{2s}{40 \cdot a-b}}$; $= 36552$ feet $= 6.922$ miles per second, and any velocity greater than this will carry the body to the moon.

Answers were also given by Messrs. *J. Jackson, Rowe, Sampson,* and *White.*

15. Quest. 580, answered by Mr. N. Parnell.

Draw GH parallel to AR, and BF to GH, meeting AT in F, then by sim. $\triangle$s AF : AE :: ED : DE = DG :: AB : AH, or AF : AB :: AE

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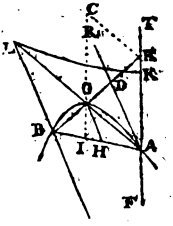
:: AE : AH ; then take any line L : AB :: AB : AF, and we ſhall have L : AB :: AH : AE, or L : AH :: AB : AE, a property of the *hyperbola*, whoſe aſymptotes are parallel to TA and RA.



Part 2. Draw BF as above, take AT = AF, and apply AL to BF produced ſuch that AL may be to AT in the given ratio, join LT, parallel to which draw BE, and it is done. For AT = AF, and AR is parallel to LF, and conſeq. RL = RT, and for the like reaſon DG = DE, and by ſim. △s AG : AE :: AL : AT, the given ratio by conſtr.

Part 3. Make BF parallel to AR, and AT to AF, as before; then deſcribe the circular arc KL, cutting LF in L, ſo that TL and AL ſhall have the given ratio, draw BE parallel to LF, and it is done. For as above we prove DG = DE, and by ſim. △s AG : GE :: AL : LT, the given ratio.

The ſame anſwered by Mr. J. SAMPSON.

Thro' G, a given point in the curve, per queſt. draw CI parallel to AT, one of the lines given in poſition, and meeting the other of them RA in C, and join CE, then the triangles ADE, CDG, are equiangular, but by hypotheſis DE = DG, therefore AE = GC, and AB = DC; let AB = a, a parallel to AT draw thro' B to meet AR let = b, AI = x, and IG = y, then IB = $a - x$, and by ſim. △s $a - x : y :: a : AE = GC = \frac{ay}{a-x}$, and $a : b :: x : IC = \frac{bx}{a}$, ∴ $\frac{bx}{a} = y + \frac{ay}{a-x}$, or $2a^2y - axy = abx - bx^2$, the equation of the curve, which, becauſe the rectangle xy and but one of the ſquares of the unknown quantities (x^2) is found therein, belongs to the hyperbola. And if $w = 2a - x$, we ſhall by reduction obtain $2ab = w \times 3b - \frac{bw}{a} - y$, an equation determining the aſymptotes. The 2nd and 3d parts are nearly as in the preceding ſolution.

And much in the ſame manner was the anſwer given by Meſſrs. *Dees, Cunliffe, Gough, Howard*, and *White*.

The aſymptotes will be found by producing BA both ways till each of its prolongations be equal to itſelf, or ſo that as ED : GD :: BA : each of its prolongations when the given ratio of ED : GD is not that of equality; then, thro' the extremity of the line ſo produced beyond B, draw a line parallel to TF, and it will be one aſymptote of the hyperbola, and thro' the other extremity of the line produced beyond A, draw a line parallel to AR, and it will be the other aſymptote.

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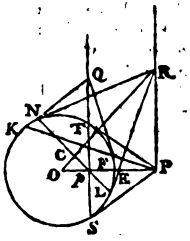
16. Quest. 581, anſwered by Mr. J. Gough.



In lieu of a conic ſection, let the circle NFS, whoſe centre is O, in the firſt place be propoſed; and let P or p be the given point. Now if tangents PT, PS, and the line ST, be drawn, it has been proved in the ſolution to the firſt queſt. above, that if tangents, as QF, QK, be drawn from any point Q in ST produced, the line KF will paſs thro P; and it will not be difficult to prove the converſe of the ſame, from which it is evident, that if any line PK be drawn cutting the circle in F and K, the tangents FQ, KQ, will always meet in the line ST produced.

And when p within the circle is the point, thro' it draw TS perp. to Op, and the tangents SP, TP, and thro' p any other line LN and the tangents LR, NR; join PR, and draw OP, OR, meeting LN in C. Now OC . OR $=$ ON^2 $=$ Op . OP, or OC : Op :: OP : OR, therefore the triangles OCp, OPR, are ſimilar, but the angle OCp is right, $\therefore$ RPO is right alſo, and RP, ST, parallel. Now if we ſuppoſe the circle, with its tangents and the lines SQ, PR, to be projected gnomonically, the projection will be the different conic ſections, as the poſition of the circle with regard to the plane of the projection varies; and, from the nature of *perſpective*, the tangents of the circle will become the tangents of the reſpective conic ſections, and the projections of ST and PR will be parallel. Therefore the required *locus* is a right line in all caſes.

Scholium. The ſimplicity and perſpicuity of this put it upon an equality with ſtricter demonſtration deduced from the more complex principles of unmixed geometry.

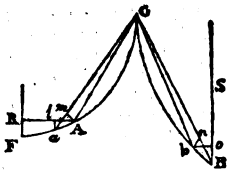
The ſame anſwered by Mr. J. Sampson.

Let SNTL be the given conic ſection, and P or p the given point; firſt let p be within the ſection, thro' p draw the ordinate SpT to the diameter OE, then draw the tangents SP, PT, interſecting each other in P, thro' P draw PR parallel to the ordinate ST. Now if any line NL be drawn thro' p, the tangents NR, LR, will interſect each other in ſome point R in PR, and conſequently the right line PR is the required locus by Dr. *Simpſon's* Conics, v. 4, cor. 4. Secondly, let the given point P be without the ſection, then, by the above quoration, if tangents be drawn from F and K, they will interſect in the right line ST produced, which $\therefore$ is the required locus in this caſe. And thus is the anſwer given by Mr. *T. White*.

Mr. *Rowbottom*, the propoſer ſays, that being much engaged with other buſineſs, he tranſmitted for publication a different queſtion from what he intended, which was the reaſon why it was ſo worded.

The

The Prize Question answered, by Rumenes.



In order to render the matter as simple and perspicuous as possible, let the pulley and weights be considered as points, since it will be easy afterwards to accommodate the computations to those of given magnitude, when necessary.

Let C be the pin or pulley, B the weight descending along the curve CB with the variable velocity v, and, by means of the string BCA, drawing the other body A upwards along the curve FAC with the variable velocity u, BS $= y =$ the vertical distance descended by B in acquiring the velocity v, RF $= q =$ the cotemporary distance ascended by A in acquiring the velocity u, CB $= x$, Bn $= \dot{x}$, Bo $= \dot{y}$, Bb $= i$, Am $=$ Bn, Aa $= r$, $la = q$, and $g =$ the force of gravity.

Then since whether a body descends thro' a right line or a curve, it acquires the same velocity in descending thro' the same vertical distance; if the body A were away, the motive force acting upon B would be $gB \times \frac{Bo}{Bb} = B \times \frac{g\dot{y}}{i}$, for one body cannot affect the peculiar motion of the other about its centre of gravity, for which reason the motive forces may here be resolved or compounded like accelerating ones. Again, if B were away, and A, with the necessary velocity given at F, ascended up FA, its motive force at A would be $= A \times \frac{g\dot{q}}{r}$ in direction aA, and $A \times \frac{g\dot{q}}{\dot{x}}$ along the string, and $= A \times \frac{g\dot{q}}{i}$ in the direction Bb of B's motion; and consequently the motive force of the bodies along $bB = B \times \frac{g\dot{y}}{i} - A \times \frac{g\dot{q}}{i}$. Now, in order to determine the *inertia* by which this motive force must be divided to give the accelerating one, the *inertia* of B, in the direction bB of its own motion, must needs be equal to its mass $=$ B, but unless A has an equal acceleration along bB, its *inertia* in that direction cannot be equal to its mass, but to some other quantity; and its accelerating force in aA is to that in Bb, as the momentary accelerations in each direction, that is as $\dot{u} : \dot{v}$, its motive force in Aa is as $A\dot{u}$, and in aC or CB as $A \times \frac{r\dot{u}}{x}$, and in B$b$ as $A \times \frac{r\dot{u}}{i}$, which divided by the accelerative force or $\dot{v}$ gives $A \times \frac{r\dot{u}}{i\dot{v}} = A \times \frac{u\dot{u}}{v\dot{v}}$ the *inertia* in direction bB caused by the body A, because the

elemen-

elementary time $= \frac{r}{u} = \frac{s}{v}$, $= \frac{r}{s} = \frac{u}{v}$, $\therefore B + A \times \frac{uu}{vv}$ must be the *inertia*, by which the whole motive force found above being divided, will give the accelerating force, which being multiplied by the elementary time above, must give the acceleration in $Bb = w$, from which equation there immediately results $Bgy - Agq = Bvv + Auu$, and $2Bgy - 2Agq = Bv^2 + Au^2$ when the motion is supposed to begin at F, when y, g, v, and u, all begin together, which is a general expression for the relation of the velocities, let the curves be what they will, from which, and the equation $vr = us$, the velocities will be given.

Thus, supposing CAF to be a right line, and CB a semicircle, as in quest. 545, retaining the notation at p. 42 of the Diary for 1785, the general equation above will here become

$$abg\sqrt{a^2 - u^2} - 2wg\sqrt{2a^2 - 2au} = bu^2 + wv^2 \cdot \frac{a+u}{2a}, \text{ and } v^2 = \frac{4abg\sqrt{a^2 - u^2} - 4wg\sqrt{2a^2 - 2au}}{2ab + wa + wu}, \text{ instead of that there found.}$$

Scholium. A Gentleman, who in one of the Magazines found fault with the solution here corrected, refers to a *Treatise* on the rectilinear motion and rotation of bodies, by G. Atwood, M.A. F.R.S. for a true and general method: but it appears from what is done above, that Mr. Atwood's solution must first be corrected, and made to agree with what is here brought out; and which, tho' deduced by a method wholly different, perfectly agrees with the conclusions of M. J. Bernoulli, who was the first that truly solved the problem. And, on occasion of a mistake fallen into by M. Herman, in his solution of the same prob. says, "Quod non ideo dico, ut ipsius meritis aliquid detraham, sed ut discant alii hanc materiam, densa adhuc caligine obseptam, cautius tractare, cum viderint magnos quoque viros in ea frequenter cespitasse." It is now upwards of fifty years since M. Bernoulli wrote this, and still the thick darkness he speaks of does not appear to be wholly removed. It is not, however, here meant to depreciate Mr. Atwood's book, which deserves much commendation, being a very ingenious and useful one.

New Mathematical Questions, to be answered in next Year's Diary.

(1.) Quest. 583, by Virgilius of Alnwick.

Given $x + y + z = 51$, $xx + yy = 400$, $2xy + xz = 913$. } Quere x the month, y the day, and z my age, by simple equations only?

(2.) Quest. 584, by Mr. Francis Allwood, of Rotherham.

Near Bakewell, in Derbyshire, is a large and fertile piece of ground,

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ground, for which, it is said, a certain gentleman offered such a sum of money as would surround it with shillings, which was refused, though at the rate of fifty pounds per acre. Now if each shilling be supposed an inch in diameter, and the ground exactly square; required its area, and the sum offered?

(3.) QUEST. 585, by Mr. MICHAEL WILLIAMS.

I measured a field in the form of a right angled triangle, which was overflowed with water, but there was a plain mark at each corner, and dry land at both ends of the hypothenuse, where I erected two perpendiculars, which I measured until I alternately found myself in a right line with the other two sides of the field, and found the content thereof one acre, one rood, and twenty-five poles: required the length of the two perpendiculars, their proportion to each other being as three to one?

(4.) QUEST. 586, by Mr. JOHN CAVILL.

A staff, equal in length to the depth of a cylinder containing 48 ale gallons, being put diagonally to the bottom, rested with its upper end against the side at one foot below the top: quere the cylinder's dimensions?

(5.) QUEST. 587, by Mr. M. WILLIAMS.

To find the sides and area of a trapezium, such, that the first side with one-third, the second with one-fifth, the third with one seventh, and the fourth with one-ninth of the sum of the other sides, may always be equal to forty-eight chains per Gunter, one of the angles right, and the content the greatest the data will admit of?

(6.) QUEST. 588, by Mr. A. ROWE.

In $a^2x^2 + byx^2 = c^2x$; quere x in terms of y?

(7.) QUEST. 589, by Mr. N. PARNEL.

Given the sum of the height of the gnomon of a sun-dial and the distance of the ten o'clock hour-line from the meridian, fifty degrees: to find the gnomon's height by orthographical projection?

(8.) QUEST. 590, by Mr. J. HOWARD, of Carlisle.

In a given ellipsis to inscribe the greatest triangle, such, that one of its angles may be = a given one, and to shew the limits of possibility?

(9.) QUEST. 591, by Mr. T. COCK, of Cirencester.

A solid globe of dry oak, one foot diameter, freely floats in a vessel containing three inches depth of oil-olive, and the rest common water. What part of it is immersed in each fluid, allowing the specific gravities of oak, oil, and water, to be as 4890, 4815, and 5294?

(10.) QUEST. 592, by Mr. A. OLIVER, of Alnwick.

Required the sum of any number of terms of the series $\frac{15.18}{1.2.3.4} + \frac{18.21}{2.3.4.5} + \frac{21.24}{3.4.5.6}$ + &c. and the exact sum of the series?

(11.)

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(11.) QUEST. 593, by Mr. JOHN DALTON, of Kendal.

From a given circle to cut off an arc, ſuch, that the rectangle under its verſed ſine, and the coſine of its double, may be a *maximum*?

(12.) QUEST. 594, by Mr. T. WHITE.

From a given point P between two right lines AB, BC, given in poſition, to draw two right lines to cut off a ſegment ST from a third right line given in poſition, ſuch, that having divided ST in a given ratio in W, BW may be given in length, and the ſegments BD, BE, cut off by PS and PT from AB and BC, may obtain a given ratio?

(13.) QUEST. 595, by Mr. N. PARNEL.

Suppoſing a tangent drawn to a circle given in magnitude and poſition, and a right line from a given point perpendicular to the ſaid tangent; required the equation of the curve which is the *locus* of the right angle ſo formed, and its quadrature, by the help of that of the given circle only?

(14.) QUEST. 596, by Mr. J. SAMPSON.

Required the equation and quadrature of the curve which is the *locus* of the point D in my ſolution of *Queſt.* 578?

(15.) QUEST. 597, by Mr. T. WHITE.

If, from two given points A and B, equidiſtant from a right line DE given in poſition, two lines be drawn to cut it in K and L, and interſect each other in ſome point F of another right line FE given in poſition, and, if from L a line be drawn to a third given point C, CF be joined, and a line drawn from K parallel to LC, and cutting CF in S; the *locus* of the point S is required?

(16.) QUEST. 598, by PORISMATICUS.

If from a given point D a right line be drawn cutting two others given by poſition in M and N, and if from M towards D on DN there be taken MO equal to MN, and if from B, the point of concourſe of the lines given by poſition, a line be drawn thro' O, theſe lines BO, ND, produced, (if neceſſary) ſhall always cut off an *apotome*, or ſegment, of the ſame conſtant length, from another line given in poſition, let ND be drawn whereſoever it may. It is required to draw this laſt line given in poſition, find the *apotome*, and give the demonſtration?

PRIZE QUESTION, by EUMENES.

If two given equal ſemicircular planes, or wires, be placed with their diameters on the ſame level in the ſame vertical plane, whilſt two equal weights, connected by a thread, are put in motion up the ſemicircles, beginning at the loweſt points, by the gravity of a third weight hung in the middle of the ſtring, which the firſt inſtant is horizontal, and ſlides freely over two pins in the neareſt angles of the ſemicircles. Required the ratio of the third weight to each of the equal ones, ſo as to be juſt able to raiſe them to the pins: and the tenſion of the thread when in motion?

FINIS.

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The LADIES' *Diary:*

OR

WOMAN'S ALMANACK,

For the Year of our LORD 1788;

Being the BISSEXTILE, or LEAP-YEAR.

Containing New Improvements in ARTS and SCIENCES,
And many Entertaining PARTICULARS:
Designed for the *Use* and *Diverſion* of the

FAIR-SEX.

The Eighty-fifth ALMANACK Publiſhed of this Kind.

VIRTUE and SENSE, with FEMALE-SOFTNESS join'd,
(ALL that ſubdues and captivates Mankind!)
In BRITAIN's Matchleſs FAIR reſplendent ſhine;
THEY rule LOVE's Empire by a Right Divine:
Juſtly their Charms the aſtoniſh'd World admires,
Whom *Royal* CHARLOTTE's bright Example fires.

LONDON:
Printed for the COMPANY of STATIONERS,
And ſold by ROBERT HORSFIELD, at their Hall in Ludgate-Street.
[Price ſtitched, NINE-PENCE.]

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Y. of Christ.		Yrs. since.
1600	King Charles I. born	188
1603	Q. Eliz. died, K. Ja. succ.	185
1603	A great Plague in London	185
1605	Popish Gun-powder Plot	183
1616	Shakspeare the poet died	172
1625	K. James died, Cha. I. succ.	163
1641	Bloody Irish massacre -	147
1642	Sir I. Newton born, Dec. 25	146
1649	K. Charles I. beheaded	139
1658	Oliver Cromwell died -	130
1660	K. Charles II. restored	128
1662	Royal Society instituted	126
1665	Died of the plague 68,586	123
1666	Great fire in London -	122
1666	War against Denmark decl.	122
1667	Peace with Hol. Fr. & Den.	121
1672	War against Holland decl.	116
1672	Halfpence & Farth. coined	116
1674	Peace with Holland procl.	114
1679	Habeas Corpus act passed	109
1685	K. Cha. II. died, Ja. II. succ.	103
1688	Prince of Orange landed	100
1688	K. James II abdicated	100
1689	Wm. and Mary crowned	99
1693	Hackney coaches established	95
1702	K. Wm. died, Q. Ann succ.	86
1702	War against France declared	86
1707	England & Scotland united	81
1713	Peace with France procl.	75
1714	Q. Ann died, K. Geo. I. succ.	74
1715	Rebellion in the north -	73
1716	A very great frost -	72
1726	Sir Isaac Newton died -	62
1727	K. Geo. I. died, Geo. II. succ.	61
1739	War against Spain declared	49
1739	A very great frost -	49
1743	A great comet appeared	45
1744	War against France declared	44
1745	Rebellion in Scotland -	43
1748	A general peace -	40
1750	Westminster bridge finished	38
1752	Date and Calendar altered	36
1756	War against France declared	32
1760	K. Geo. II. died, G. III. succ.	28
1762	Antietican philos. soc. instit.	26
1762	War against Spain declared	26
1763	Peace with France & Spain	25
1765	Otaheite discovered -	23
1770	Blackfriars bridge finished	18
1772	A revolution in Denmark	16
1772	A revolution in Sweden	16
1775	War against America begun	13
1776	America declared independent	12
1778	French treaty with America	10
1778	War against France begun	10
1779	War against Spain begun	9
1780	War against Holland begun	8
1783	A general peace -	5

BIRTH-DAYS, [N.S.] and YEARS, of the ROYAL FAMILY of GREAT BRITAIN.

KING GEORGE III. June 4,	1738
Prince of Wales, August 12,	1762
Prince Frederick, August 16,	1763
Prince William Henry, Aug. 21,	1765
Prs. Charl. Aug. Mat. Sept. 29,	1766
Prince Edward, Nov. 2, -	1767
Prs. Augusta Sophia, Nov. 8,	1768
Prs. Elizabeth, May 22, -	1770
Prince Ernest Augustus, June 5,	1771
Prince Aug. Fred. Jan. 27,	1773
Prince Adolph. Fred. Feb. 24,	1774
Princess Mary, April 25, -	1776
Princess Sophia, Nov. 3, -	1777
Princess Amelia, Aug. 7, -	1783
Queen Charlotte, May 19, -	1744
Prs. Augusta of Brunsw Aug. 11,	1737
Duke of Gloucester, Nov. 25,	1743
Duke of Cumberland, Nov. 7,	1745

YEARS of BIRTHS of the Principal SOVEREIGN PRINCES of EUROPE.

Achmet IV. Grand Seignor	1715
Charles, King of Spain, -	1716
Pius VI. Pope - -	1717
Victor Amada Maria, K. Sardinia	1726
Catherine, Empress of Russia,	1729
Stanislaus Aug. King of Poland	1732
Maria, Queen of Portugal -	1734
Joseph Ben. Aug. Emp. Germ.	1741
Fred. William, King of Prussia,	1744
Gustavus, King of Sweden,	1746
William V. Stadtholder, -	1748
Christian VII. K. of Denmark,	1749
Ferdinand IV. King of Sicily,	1751
Lewis XVI. King of France	1754

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New Moon, 8th, 54m. past 11 morn.
First Quarter, 16th, 57m. past 9 morn.
Full Moon 23d, 59m. past 1 morn.
Last Quarter, 30th, 15m past 1 morn.

Sun enters ♒ 19d. 18h. 48m.

1	Tu	Circumcision	8	5	3	55	23	s	1	1 m	19	24
2	W			4		56	22		56	2	30	25
3	Th			4		56			50	3	39	26
4	F			3		57			44	4	44	27
5	S	*Old Christmas Day*		2		58			38	5	48	28
6	F	Epiphany: *Twelfth-day*		1		59			31	6	32	29
7	M	*Plow Monday*		0	4	0			23	7	15	30
8	Tu	*Lucian*		0		0			15	☽ sets		N
9	W		7	59		1			7	5 a	23	2
10	Th			58		2	21		58	6	30	3
11	F			57		3			49	7	39	4
12	S	*Old New-Year's Day*		56		4			39	8	47	5
13	F	1 S.a.Ep. *Hil.* Ca. T. be.		54		6			29	9	57	6
14	M	Orf. Term begins		53		7			19	11	8	7
15	Tu			52		8			8	morn		8
16	W			51		9	20		57	0	22	9
17	Th	*Old Twelfth Day*		50		10			45	1	39	10
18	F	Queen's B.day kept. *Prisca*		48		12			33	2	54	11
19	S			47		13			20	4	10	12
20	S	Septuag. Sun. *Fabian.*		46		14			8	5	16	13
21	M	*Agnes* Hilary, 1 ret.		44		16	19		54	6	11	14
22	Tu	*Vincent*		43		17			41	6	53	15
23	W	Hilary Term begins		41		19			27	☽ rises		F
24	Th			40		20			13	6 a	50	17
25	F	Conversion of St. Paul		38		22	18		58	8	13	18
26	S			37		23			43	9	34	19
27	S	Sexag. Sun. Pr. Aug. F. b.		35		25			28	10	50	20
28	M	Hilary, 2 return		34		26			12	morn		21
29	Tu			32		28	17		56	0	5	22
30	W	K. Cha. I. mart. 1649		31		29			40	1	16	23
31	Th			29		31			23	2	25	24

Days	L. of D.	Day Inc.	D.breaks	Tw. ends	Sun East	Cl. bef. S.	7 Stars So.
1	7 50	0 6	6 0	6 0	4 41	4 1	8 a 45
6	58	14	5 58	2	43	6 18	23
11	8 6	22	54	6	46	8 23	1
16	18	34	49	11	49	10 13	7 40
21	32	48	44	16	53	11 47	19
26	46	1 2	38	22	58	13 1	6 57

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New Moon, 7th, 5 m. past 6 morn.
First Quarter, 14th, 56m. past 8 night.
Full Moon, 21st, 49m. past 12 noon.
Last Quarter, 28th, 16m. past 8 night.

Sun enters ♓ 18d. 9h. 38m.

M D	W D	Sundays, Holydays, &c.	Sun rises	Sun sets	Sun's decl.	☽ rises & sets	☽'s Age
1	F		7 27	4 33	17 s 6	3 m 27	25
2	S	Purif. or Candlemas-day	25	35	16 49	4 21	26
3	F	Quinq. or Shrove S. *Blase*	24	36	31	5 6	27
4	M	Hilary, 3 return	22	38	13	5 42	28
5	Tu	Shrove Tuesday. *Agatha*	20	40	15 55	6 13	29
6	W	Ash Wednesday	19	41	37	6 36	30
7	Th		17	43	18	☽ sets	N
8	F		15	45	14 59	6 a 30	2
9	S	Hilary, 4th return	13	47	40	7 42	3
10	F	1 Sunday in Lent	11	49	21	8 54	4
11	M		9	51	1	10 6	5
12	Tu	Hilary Term ends	8	52	13 41	11 20	6
13	W	Ember Week. *Old Can. day*	6	54	21	morn	7
14	Th	*Valentine*	4	56	1	0 36	8
15	F		2	58	12 40	1 49	9
16	S		0	5. 0	20	2 57	10
17	F	2 Sunday in Lent	6 58	2	11 59	3 57	11
18	M		56	4	38	4 44	12
19	Tu		54	6	16	5 21	13
20	W		52	8	10 55	5 51	14
21	Th		51	9	33	☽ rises	F
22	F		49	11	11	7 a 7	16
23	S		47	13	9 50	8 23	17
24	F	☿ S. in L. St. Matthi. Pr.	45	15	27	9 41	18
25	M	[Ad. Fred. b.	43	17	5	10 56	19
26	Tu		41	19	8 43	morn	20
27	W		39	21	20	0 8	21
28	Th		37	23	7 58	1 15	22
29	F		35	25	35	2 13	23

Days	L. of D.	Day Inc.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	♃ Stars So.
1	9 6	1 22	5 32	6 28	5 3	14 3"	6 a 34
6	22	38	24	36	9	32	13
11	42	58	16	44	14	40	5 53
16	10 0	2 16	7	53	20	29	34
21	18	34	4 58	7 2	26	1	15
26	38	54	49	11	32	13 17	4 56

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New Moon, 7th, 33m. paſt 11 night.
Firſt Quarter, 15th, 19m. paſt 5 morn.
Full Moon, 21ſt, om. paſt 12 night.
Laſt Quarter, 29th, 25m. paſt 4 aftern.

Sun enters ♈ 19d. 10h. 3m.

1	S	*David*	6	33	5	27	7	s 12	3	m 2	24
2	Ⓔ	4 or Midle. S: *Chad*		31		29	6	49	3	42	25
3	M			29		31		26	4	15	26
4	Tu			27		33		3	4	40	27
5	W			25		35	5	40	5	2	28
6	Th			23		37		17	5	24	29
7	F	*Perpetua*		21		39	4	53	☽	sets	N
8	S			19		41		30	6	a 43	2
9	Ⓔ	5 Sun. in Lent.		17		43		6	7	57	3
10	M			15		45	3	43	9	13	4
11	Tu			13		47		19	10	29	5
12	W	*Gregory*		11		49	2	56	11	44	6
13	Th			9		51		32	morn		7
14	F	Camb. Term ends		7		53		8	0	55	8
15	S	Orf. Term ends		5		55	1	45	1	56	9
16	Ⓔ	6 Sun. in L. Palm Sun.		3		57		21	2	44	10
17	M	*St. Patrick*		1		59	0	57	3	23	11
18	Tu	*Edw. K. of W. Saxons*	5	59	6	1		34	3	56	12
19	W			57		3		10	4	23	13
20	Th	*Maunday Thurſday*		55		5	0	n 14	4	45	14
21	F	Good Friday *Benedict*		53		7		37	☽	riſes	F
22	S			51		9	1	1	7	a 22	16
23	Ⓔ	Eaſter Day		49		11		25	8	39	17
24	M	Eaſter Monday		47		13		48	9	55	18
25	Tu	Eaſter Tueſday. Annun. or [Lady Day		45		15	2	12	11	4	19
26	W			43		17		35	morn		20
27	Th			41		19		59	0	7	21
28	F			39		21	3	22	1	0	22
29	S			37		23		45	1	44	23
30	Ⓔ	Low Sunday		36		24	4	9	2	21	24
31	M			34		26		32	2	50	25

Days	L. of D.	Day Inc.	D.breaks	Tw. ends	Sun Eaſt	Cl. beſ. S.	♈ Stars So.
1	10 54	3 10	4 42	7 18	5 37	12′ 31″	4 a 41
6	11 14	30	31	29	43	11 22	23
11	34	50	20	40	49	10 3	5
16	54	4 10	10	50	56	8 38	3 46
21	12 14	30	0	8 0	6 2	7 7	28
26	34	50	3 48	12	8	5 35	10

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New Moon, 6th, 17m. past 1 aftern.
First Quarter, 13th, 52m. past 11 morn.
Full Moon, 20th, at noon.
Last Quarter, 28th, 39m. past 11 morn.

Sun enters ♉ 18d. 22h. 47m.

1	Tu		5	32	6	28	4	55	3	m	13	26
2	W	Orf. and Cam. T. begin		30		30	5	18	3		35	27
3	Th	*Richard*		28		32		41	3		54	28
4	F	*St. Ambrose*		26		34	6	4	4		13	29
5	S	Old Lady day		24		36		26	4		30	30
6	E	2 Sunday after Easter		22		38		49	D	sets		N
7	M	Easter Term 1 return		20		40	7	11	8	a	22	2
8	Tu			18		42		34	9		40	3
9	W	Easter Term begins		16		44		56	10		52	4
10	Th			14		46	8	18	11		57	5
11	F			12		48		40	morn			6
12	S			10		50	9	2	0		50	7
13	E	3 Sunday after Easter		8		52		24	1		33	8
14	M	Easter Term 2 return		6		54		45	2		6	9
15	Tu			5		55	10	6	2		34	10
16	W			3		57		28	2		57	11
17	Th			1		59		49	3		19	12
18	F		4	59	7	1	11	9	3		39	13
19	S	*Alphege*		57		3		30	4		0	14
20	E	4 Sunday after Easter		55		5		51	D	rises		F
21	M	Easter Term 3 return		53		7	12	11	8	a	53	16
22	Tu			51		9		31	9		58	17
23	W	St. George.		50		10		51	10		56	18
24	Th			48		12	13	10	11		44	19
25	F	St. Mark. Prs. Maryb. 1776		46		14		30	morn			20
26	S			44		16		49	0		24	21
27	E	Rogation Sunday		42		18	14	8	0		55	22
28	M	Easter Term 4 return		40		20		27	1		22	23
29	Tu			39		21		45	1		43	24
30	W			37		23	15	4	2		2	25

Days	L. of D.		Day Inc.		D. breaks		Tw. ends		Sun East		Cl. bef. S.		♈ Stars So.	
1	12	56	5	12	3	31	8	31	6	16	3′	43″	2 a	48
6	13	16		32		19		43		22	2	14		30
11		36		52		4		58		28	0	49		11
16		54	6	10	2	52	9	11		34	0 a	27	1	53
21	14	14		30		38		25		39	1	33		34
26		32		48		23		40		45	2	20		15

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New Moon, 6th, 46m. before 1 morn.
First Quarter, 12th, 33m. past 5 aftern.
Full Moon, 20th, 8m. past 1 morn.
Last Quarter, 28th, 33m. past 4 morn.

Sun enters ♉ 19d. 23h. 21m.

1	Th	Aſcenſi. St. Phi. & James	4	35	7	25	15	s 22	2 m	21	26
2	F	Eaſter Term 5 return		34		26		39	2	39	27
3	S	*Invention of the Croſs*		32		28		57	3	0	28
4	B	Sunday after Aſcenſion		30		30	16	14	3	21	29
5	M	Eaſter Term ends		28		32		31	3	48	30
6	Tu	*John Ev. ante Port. Lat.*		27		33		48	☽	ſets	N
7	W			25		35	17	4	9 a	51	2
8	Th	Orſ. Term ends		23		37		21	10	49	3
9	F			22		38		37	11	36	4
10	S			20		40		52	morn		5
11	B	Whit Sunday		19		41	18	7	0	12	6
12	M	Whit Monday *O.MayDay*		17		43		22	0	42	7
13	Tu	Whit Tueſday		16		44		37	1	5	8
14	W	Ember Week		14		46		51	1	27	9
15	Th			13		47	19	5	1	48	10
16	F			11		49		19	2	7	11
17	S			10		50		33	2	29	12
18	B	Trinity Sunday		8		52		46	2	54	13
19	M	Q.Char.b. *Dunſtan.* Trin.		7		53		58	3	24	14
20	Tu	[Te. 1 re.		6		54	20	11	☽	riſes	F
21	W	Orſ. Term begins		4		56		23	9 a	41	16
22	Th	Prs. Eliz. b. *Cor. Chriſti*		3		57		34	10	22	17
23	F	Trinity Term begins		2		58		46	10	57	18
24	S			0	8	0		57	11	24	19
25	B	1 Sunday after Trinity	3	59		1	21	7	11	46	20
26	M	*Auguſtin.* Tri. Te. 2 re.		58		2		18	morn		21
27	Tu	*Ven. Bede*		57		3		28	0	7	22
28	W			56		4		37	0	26	23
29	Th	K. Cha. II. Reſtored 1660		55		5		46	0	43	24
30	F			54		6		55	1	1	25
31	S			53		7	22	3	1	21	26

Days	L. of D.	Day Inc.	D.breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars So.
1	14 50	7 0	2 5	9 59	6 50	3 12	0 a 56
6	15 6	22	1 51	10 13	56	42	37
11	22	38	29	35	7 0	58	18
16	38	54	6	59	5	59	11 m 58
21	52	8 8	0 30	11 36	9	45	39
			No real Night		12	18	10

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New Moon, 4th, 58m. past 8 morn.
First Quarter, 10th, 38m. past 11 night.
Full Moon, 18th, 26m. past 3 aftern.
Last Quarter, 26th, 40m. past 6 aftern.

Sun enters ♋ 20d. 8h. 2m.

1	E	2 Sun. af. Trin. *Nicomede*	3	52	8	8	22	5	11	1 m	45	27
2	M	Trin. Term 3 return		51		9		19		2	14	28
3	Tu			50		10		26		2	52	29
4	W	K. Geo. III. b. 1738.		49		11		33		☽ sets		N
5	Th	Pr.Er.Aug.b.1771. *Bonif.*		49		11		40		9 a	27	2
6	F			48		12		46		10	11	3
7	S			47		13		51		10	43	4
8	E	3 Sun. aft. Trinity		47		13		57		11	8	5
9	M	Trinity Term 4 return		46		14	23	1		11	31	6
10	Tu			46		14		6		11	51	7
11	W	St. Barnabas. Tri. T. ends		45		15		10		morn		8
12	Th			45		15		14		0	10	9
13	F			44		16		17		0	32	10
14	S			44		16		20		0	56	11
15	E	4 Sun. after Trin.		44		16		22		1	23	12
16	M			43		17		24		1	57	13
17	Tu	*St. Alban*						26		2	38	14
18	W							27		☽ rises		F
19	Th							28		8 a	52	16
20	F	*Transf. Edw. K. W. Sax.*						28		9	24	17
21	S	Longest Day						28		9	46	18
22	E	5 Sun. after Trin.						27		10	7	19
23	M							27		10	25	20
24	Tu	Nativity. of St. J. Baptist						25		10	43	21
25	W			43		17		23		11	1	22
26	Th			44		16		21		11	19	23
27	F			44		16		19		11	40	24
28	S			44		16		16		morn		25
29	E	6 S. af. Trin. St. Peter		45		15		12		0	6	26
30	M			45		15		9		0	38	27

Longest Day at Lond. is 16h. 34m. 4sec. allowing 9m. 16 sec. for refraction.

Days	L. of D.	Day Inc.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars So.
1	16 16	8 32			7 16	2′ 31″	10 m 54
6	24	40	No night, but		18	1 41	34
11	30	46	constant day		19	0 44	14
16	34	50	or twilight.		20	0 b 19	9 55
21	34	50			21	1 25	32
26	32	0de. 2			20	2 28	12

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New Moon, 3d, 15m. past 4 aftern.
First Quarter, 10th, 33m. past 7 morn.
Full Moon, 18th, 34m. past 6 morn.
Last Quarter, 26th, 10m. past 6 morn.

Sun enters ♌ 21d. 18h. 53m.

1	L	Lam. Commencement	3	46	3	14	23	s 5	1	m 22	2
2	W	*Visitation of Virgin Mary*		46		14		0	2	19	2
3	Th	Dog Days begin		47		13	22	55	☽	sets	N
4	F	*Transf. of St. Ma.* Ca. T.e.		48		12		50	8	a 34	
5	S	*Old Midsummer day*		48		12		44	9	5	
6	S	7 Sunday after Trinity		4		11		38	9	29	
7	M			5		10		31	9	51	
8	Tu			5		10		24	10	9	
9	W			51		9		17	10	32	
10	Th			52		8		9	10	55	
11	F			53		7		1	11	21	
12	S			54		6	21	53	11	53	1
13	S	8 Sunday after Trinity		55		5		44	morn		1
14	M	Oxford Act		56		4		34	0	32	1
15	Tu	*Swithin*		57		3		25	1	18	1
16	W			58		2		15	2	11	1
17	Th		4	0		0		5	3	11	1
18	F			1	7	59	20	54	☽	rises	F
19	S	Oxf. Term ends		2		58		43	8	a 10	1
20	S	9 Sun. af. Trin. *Margaret*		3		57		32	8	29	1
21	M			5		55		23	8	46	1
22	Tu	*Magdalen*		6		54		8	9	4	2
23	W			7		53	19	55	9	22	2
24	Th			9		51		43	9	43	2
25	F	St. James		10		50		30	10	6	2
26	S	*St Anne*		11		49		16	10	36	2
27	S	10 Sunday after Trinity		13		47		3	11	11	2
28	M			14		46	18	49	morn		2
29	Tu			16		44		34	0	0	2
30	W			17		43		20	1	2	2
31	Th			18		41		5	2	16	2

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cr. bef. S.	♈ Stars So.
1	16 28	0 6			7 19	3′ 28″	8 m 51
6	22	12			17	4 20	31
11	14	20	No real Night		15	5 4	10
16	4	30			12	5 38	7 50
21	15 50	44			9	5 58	30
26	38	56	0 46	11 11	5	6 4	10

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New Moon, 1ſt, 6m. paſt 11 night.
First Quarter, 8th, 36m. paſt 6 aftern.
Full Moon, 16th, 57m. paſt 9 night.
Laſt Quarter, 24th, 39m. paſt 3 aftern.
New Moon, 31ſt, 34m. paſt 6 morn.

Sun enters ♍ 22d. 1h. 14m.

1	F	Lammas Day	4	20	7	40	17	49	☽ ſets 7 a 28 2
2	S			22		38		34	7 51 3
3	B	11 Sunday after Trinity		24		36		18	8 15 4
4	M			25		35		2	8 36 5
5	Tu			27		33	16	46	8 56 6
6	W	*Tranſfiguration*		28		32		29	9 9 6
7	Th	Prs. Amelia b. 1783. *Name of Jeſus*		30		30		12	9 25 7
8	F			32		28	15	55	9 55 8
9	S			34		26		37	10 32 9
10	B	12 S. a. Tri. *St. Laurence*		35		25		20	11 16 10
11	M	Prs. Brunſ. b. Leg D. e.		37		23		2	morn 11
12	Tu	Pr. Wales b. O. *Lam. day*		39		21	14	44	0 8 12
13	W			41		19		25	1 6 13
14	Th			42		18		7	2 8 14
15	F	*Aſſumption*		44		16	13	48	3 13 15
16	S	Duke of York born 1763		46		14		29	☽ riſes F
17	B	13 Sunday after Trinity		48		12		10	6 a 55 17
18	M			50		10	12	50	7 14 18
19	Tu			51		9		30	7 34 19
20	W			53		7		10	7 53 20
21	Th	Pr. Wm. Hen. b. 1765		55		5	11	50	8 16 21
22	F			57		3		30	8 4 22
23	S			59		1		10	9 15 23
24	B	14 S. af. Tri, St. Bartho.	5	1	6	59	10	49	9 51 24
25	M			2		58		28	10 52 25
26	Tu			4		56		7	11 58 26
27	W			6		54	9	46	morn 27
28	Th	*St. Auguſtine*		8		52		25	1 16 28
29	F	*Beheading of John Baptiſt*		10		50		3	2 30 29
30	S			12		48	8	42	4 6 30
31	B	15 Sunday after Trinity		14		46		20	☽ ſets N

Day.	Eq. of Time.	by Sect.	Declinat.	Sun's Semid.	Sun Rad.	Hor. Sect. S.	☽ Stars
1	15 20	1 14	1 24	10 33	0 5	5 51"	6 m 40
6	4	30	44	13	54	5 23	27
11	14 46	48	2 2	9 56	49	4 42	8
16	28	2 6	20	38	44	3 47	5 49
21	10	24	35	23	38	2 39	30
26	13 52	42	50				

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First Quarter, 7th, 18m. past 9 morn.
Full Moon, 15th, 10m. past 1 aftern.
Last Quarter, 22d, 38m. past 11 night.
New Moon, 29th, 45m. past 3 aftern.

Sun enters ♎ 21d. 21h. 42m.

1	M	*Giles*	5	16	6	44	7	52	6 a	44	2
2	R	London burnt 1666		18		42		30	7	8	3
3	W			20		40		14	7	33	4
4	Th			22		38	6	52	8	3	5
5	F			23		37		29	8	38	6
6	S			25		35		7	9	20	7
7	S	16 Sun. a. Trin. *Enurchus*		27		33	5	44	10	9	8
8	M	*Nativity of the V. Mary*		29		31		22	11	5	9
9	Tu			31		29	4	59	morn		10
10	W			33		27		36	0	6	11
11	Th			35		25		13	1	11	12
12	F			37		23	3	51	2	17	13
13	S			39		21		27	3	23	14
14	S	17 S. af. Trin. *Holy-Cross*		41		19		4	4	31	15
15	M			43		17	2	41	☽ rises		F
16	Tu			45		15		18	6 a	9	17
17	W	Ember Week. *Lambert*		47		13	1	55	6	31	18
18	Th			49		11		31	6	58	19
19	F			51		9		8	7	28	20
20	S			53		7	0	45	8	8	21
21	S	18 S. af. Tri. St. Matthew		55		5		21	8	57	22
22	M	K. Geo. III. crown. 1761		57		3		58	9	58	23
23	Tu			59		1		26	11	9	24
24	W		6	1	5	59		49	morn		25
25	Th			3		57	1	13	0	28	26
26	F	*St. Cyprian*		4		56		36	1	50	27
27	S			6		54		59	3	13	28
28	S	19 Sunday after Trinity		8		52	2	23	4	36	29
29	M	St. Mich. Prs. Ch. A. M. b.		10		50		46	☽ sets		N
30	Tu	*St. Jerome*		12		48	3	10	5 a	43	

Days	D. of D.	Day dec.	D. breaks	T. w. ends	Sun East	Cl. aft. S.	♈ Stars S
1	13 28	3 6	3 7	8 53	6 20	0 29	4 m 50
6	10	24	21	39	20	2 7	32
11	12 50	44	34	26	14	3 49	14
16	30	4 4	45	15	7	5 33	3 56
21	10	24	56	4	1	7 17	39
26	11 52	42	4 7	7 52	5 56	9 0	21

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First Quarter, 7th, 28m. past 3 morn.
Full Moon, 15th, 50m. past 3 morn.
Last Quarter, 22d, 43m. past 6 morn.
New Moon, 29th, 29m. past 3 morn.

Sun enters ♎ 22d. 5h. 39m.

1	W	*Remigius*	6	14	5	46	3	33	6 a	9	3
2	Th			16		44		56	6	45	4
3	F			18		42	4	20	7	25	5
4	S			20		40		43	8	11	6
5	☗	20 Sunday after Trinity		22		38	5	6	9	5	7
6	M	*Faith*		24		36		29	10	5	8
7	Tu			26		34		52	11	8	9
8	W			28		32	6	15	morn		10
9	Th	*St. Denys*		30		30		37	0	12	11
10	F	Ort. and Cam. T. beg.		32		28	7	0	1	19	12
11	S			34		26		23	2	26	13
12	☗	21 Sunday after Trinity		36		24		46	3	34	14
13	M	*Transf. of K. Edw. Conf.*		38		22	8	8	4	42	15
14	Tu			40		20		30	5	42	16
15	W			42		18		53	☽ rises		F
16	Th			44		16	9	15	5 a	35	18
17	F	*Etheldred*		45		15		37	6	14	19
18	S	St. Luke		47		13		58	6	59	20
19	☗	22 Sunday after Trinity		49		11	10	20	7	59	21
20	M			51		9		42	8	8	22
21	Tu			53		7	11	3	10	21	23
22	W			55		5		24	11	41	24
23	Th			57		3		45	morn		25
24	F			59		1	12	6	1	2	26
25	S	K. Geo. III. Accef. *Crisp.*	7	1	4	59		27	2	22	27
26	☗	23 S.a.Trin. K. Geo. III [Procl. 1760		3		57		47	3	42	28
27	M			4		56	13	7	5	2	29
28	Tu	St. Simon and Jude		6		54		27	6	21	30
29	W			8		52		47	☽ sets		N
30	Th			10		50	14	7	5 a	22	2
31	F			12		48		26	6	7	3

Days	L. of D.		Day dec.		D. breaks		Tw. ends		Sun East		Cl. aft. S.		♈ Stars So.	
1	11	32	5	2	4	19	7	41	5	49	10′	37″	3 m	3
6		12		22		30		30		43	12	7	2	45
11	10	52		42		40		20		36	13	25		26
16		32	6	2		50		10		30	14	31		7
21		14		20		59		1		24	15	23	1	49
26	9	54		40	5	8	6	52		18	15	58		28

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First Quarter, 5th, 53m. past 11 night.
Full Moon, 13th, 40m. past 5 even.
Last Quarter, 20th, 49m. past 1 altern.
New Moon, 27th, 10m. past 6 even.

Sun enters ♐ 21d. 1h. 52m.

1	S	All Saints [Souls	7	14	4	46	14	45	6 a 59	4
2	E	24 S.af.Tr. Pr. Ed. b. All		15		45	15	4	7 58	5
3	M	Prs.Soph.b. Mic. T.1 ret.		17		43		23	8 59	6
4	Tu			19		41		42	10 3	7
5	W	Powder Plot, 1605		21		39	16	0	11 9	8
6	Th	*Leonard.* Mich. Ter. beg.		22		38		18	morn	9
7	F	Duke of Cumb. b. 1745		24		36		35	0 13	10
8	S	Prs. Aug. Soph. bo. 1768		26		34		53	1 18	11
9	E	25 Sunday after Trinity		27		33	17	10	2 27	12
10	M	Ld. Mayor's Day at Lond.		29		31		26	3 31	13
11	Tu	*St. Martin*		31		29		43	4 47	14
12	W	Mich. Term 2 return		32		28		59	5 59	15
13	Th	*Britius*		34		26	18	15	D rises	F
14	F			36		24		30	4 a 55	17
15	S	*Machutus*		37		23		45	5 51	18
16	E	26 Sunday after Trinity		39		21	19	0	6 56	19
17	M	*Hugh Bp. of Lincoln*		40		20		15	8 7	20
18	Tu	Mich. Term 3 return		42		18		29	9 30	21
19	W			43		17		43	10 49	22
20	Th	*Edmund K. and M.*		44		16		56	morn	23
21	F			46		14	20	9	0 9	24
22	S	*Cecilia. Old Mart. day*		47		13		22	1 26	25
23	E	27 S. af. Tri. *St. Clement*		48		12		34	2 38	26
24	M			50		10		46	4 1	27
25	Tu	D. Glou. b. *Catharine.* Mi.		51		9		58	5 15	28
26	W	[Term 4 re.		52		8	21	9	6 28	29
27	Th			53		7		20	D sets	N
28	F	Mich. Term ends		54		6		30	4 a 43	2
29	S			56		4		40	5 38	3
30	E	Advent Sun. St. Andrew		57		3		50	6 39	4

Days	L. of D.	Day dec.	D.break	Tw. ends	Sun East	Cl. aft. S.	7 Stars So.
1	9 32	7 2	5 17	6 43	5 12	16′ 15″	1 m 7
6	16	18	24	36	6	16 7	0 47
11	58	36	30	30	1	15 38	27
16	8 42	52	36	24	4 56	14 48	6
21	28	8 6	43	17	52	13 37	11 a 41
26	16	18	49	11	48	12 6	20

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First Quarter,	5th, 46m. past 8 night.		Sun enters ♑
Full Moon,	13th, 22m. past 6 morn.		20d. 14h. 14m.
Last Quarter,	19th, 4m. past 10 night.		
New Moon,	27th, 31m. past 11 morn.		

1	M		7	58	4	2	21	59	7 a	45	5
2	Tu			59		1	22	8	8	49	6
3	W		8	0		0		16	9	53	7
4	Th			0		0		24	10	58	8
5	F			1	3	59		31	morn		9
		Nicholas		2		58		38	0	3	10
7	E	2 Sunday in Advent		3		57		45	1	9	11
8	[illegible]	*[illegible]nception of V. Mary*		4		56		51	2	18	12
[illegible]	Tu			4		56		56	3	27	13
[illegible]	W			5		55	23	2	4	40	14
[illegible]	Th			5		55		6	5	53	15
[illegible]	F			6		54		11	7	2	16
[illegible]		[illegible]		6		54		14	☽ rises		F
14	E	3 Sunday in Advent		7		53		18	5 a	41	18
15	M			7		53		21	7	2	19
16	Tu	O Sat. Cam. Term. ends		7		53		23	8	23	20
17	W	Ember Week. Orf. T. e.		8		52		25	9	47	21
18	Th							26	11	6	22
19	F							27	morn		23
20	S							28	0	23	24
21	E	4 S. in Ad. St. Tho. Sho. D.						28	1	38	25
22	M							27	2	53	26
23	Tu							27	4	5	27
24	W			8		52		25	5	12	28
25	Th	Christmas Day		7		53		23	6	16	29
26	F	St. Stephen		7		53		21	7	7	30
27	S	St. John		7		53		18	☽ sets		N
28	E	1 Sun. af. Chri. Innocents		6		54		15	5 a	16	2
29	M			6		54		11	6	21	3
30	Tu			5		55		7	7	27	4
31	W	*Silvester*		5		55		2	8	32	5

Shortest D. at Lond. is 7h. 44m. 17s. allowing 9m. 5s. for refraction.

[illegible]	[illegible] of D.		Day dec		D. break		[illegible]w. ends		Sun Fast		Cl. aft. S		Stars So	
1	8	4	8	30	5	55	6	5	4	45	10′	18″	10 a	59
6	7	56		38		58		2		43	8	14		37
11		50		44		59		1		41	5	58		15
16		46		48	6	0		0		40	3	32	9	53
21		44		50		1	5	59		39	1	2		31
26		46	0 inc.	2		0	6	0		40	1 b.	27		0

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CHRONOLOGICAL NOTES, &c. in 1788.

Dominical Letters	F E	Septuage. Sun.	Jan. 20	Aſcenſion Day	May 1
Golden Number	3	Shrove Sunday	Feb. 3	Whit-Sunday	11
Epact -	22	Lent begins -	6	Trinity-Sunday	18
Cycle of the Sun	5	Eaſter Day	March 23	Advent-Sun.	Nov. 30
Roman Indiction	6				

ECLIPSES, &c.

THERE will be only two eclipſes this year, and thoſe both of the Sun, the one viſible, and the other inviſible,—I. A viſible eclipſe of the ſun in the morning of June 4; the beginning at 7h. 24½m. in the morning; the middle at 8h. 11m.; and the end at 9h.; the digits being 3° 59′ on the ſouthern limb —II. The ſun will be eclipſed Nov. 27, about 10m. after 6 in the evening, or near 2 hours after ſun-ſet, and therefore inviſible here.

VENUS is an evening ſtar till Aug. 8; and afterwards a morning ſtar.

JUPITER is an evening ſtar till June 29; and afterwards a morning ſtar.

ANSWERS to the ENIGMAS.

1 Hope	4 Saddle	7 Bell	10 Pillow
2 Warming Pan	5 Nightingale	8 Auctioneer	11 May Day
3 Sleep	6 Nothing	9 Paper	12 *or Prime*, Sunday.

The Prize Enigma *anſwered in a Charade, by Mr.* R. Richardſon.

See, to my *firſt*, the proſtrate Perſian bow,
And with low rev'rence pay his morning vow;
The ſoaring lark, ſweet "herald of the morn!"
Proclaims my *next* o'er fields of waving corn.
Hail! *ſacred whole*, bleſt day of reſt and peace!
When gracious heav'n bids care and ſorrow ceaſe.

The ſame anſwered by Eccleſiæ.

Rev'rence the Sabbath, O ye charming fair;
And let the Sunday-ſchools your bounty ſhare.

The ſame by Mr. Thomas Truſwell, *of Nuneaton.*

All hail! ſweet morn, thou bright auſpicious day;
May all mankind thy ſacred laws obey:
May bounteous heav'n, dear ladies, pour on you
Celeſtial bleſſings, like the morning dew;
May you, when time itſelf no more ſhall be,
A Sabbath keep to all eternity.

Maria's *anſwer to the ſame.*

When God from chaos call'd this pond'rous globe,
He in ſix days perform'd th' amazing plan.
When finiſh'd, his bleſt word pronounc'd it good;
The ſeventh, proclaim'd a ſolemn pauze for man.—
Tho' chang'd the day, the Sabbath ſtill the ſame;
Let it be kept in reverence to his name.

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An Acroſtical anſwer by Mr. Wm. Bearcroft, *of Newton.*

S o God, by wiſdom infinite, ordain'd,
A nd by example of his own confirm'd,
B oth unto man and beaſt, a day of reſt.
B leſt Sabbath! May we all with rev'rence keep
A nd with profound devotion ſpend, that day,
T ill nature ceaſe: then with the ſaints above,
H igh ſeated near the throne at God's right hand,
Enjoy a Sabbath of eternal reſt.

The ſame anſwered by Mrs. F. C. *North Shields.*

Firſt and beſt day of all the Seven,
On which we're taught the way to heaven,
And grace and glory are the prizes given.

The ſame by Mr. G. Lodge, *of Linton.*

Hail ever-ſacred day! when God did reſt
From all created works, and call'd them bleſt;
Hail chriſtian Sabbath! ſince it was on thee
Death loſt his ſting, the Grave his victory.

The ſame by Mr. G. Simkin, *of Finedon.*

The priſe Enigma ſure doth ſay,
It is the bleſſed Sabbath day,
In which good chriſtians read and pray.

The ſame by Mr. T. Nield, *Writing Maſter of Howarden School.*

Sweet Hallelujah! may thy ſolemn ſound
On every Sunday in each church reſound.

The ſame by Mr. Rich. Dening, *of Chardſtock, Dorſet.*

How ſweet, how elegant, how gay
Are Sphinx's lines on Sabbath day.

Mr. W. P. Burman *thus anſwers it.*

The Sabbath keep, in virtue's cauſe be wiſe,
And endleſs bliſs will be th' important priſe.

The ſame anſwered by Miſs Louiſa Harput.

How Iſrael's ſons we chriſtians did excel
In keeping Sabbaths, holy records tell:
The hapleſs wretch who did this day profane,
To a ſad death their ſtatutes did ordain.
Our Sabbath wears a holy, rev'rend form;
Its rituals, feaſt and piety adorn.
Yet fouleſt acts deform its lovely face,
And cold neglect its ſacred laws diſgrace.
Sunday's ſcarce mark'd, but as a day to ſpend
In ſlothful eaſe, or pleaſure's gait attend.

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The Prize Enigma *answered by* Kit Went.

Bleſt be the man whoſe lib'ral heart
Our Sunday ſchools began!
To train the youth in virtue's path
How godlike is the plan.

If ought on earth can merit praiſe,
Or heaven's favour gain,
To lead the youth in wiſdom's ways,
Muſt ſurely both obtain.

The ſame, by Mr. Henry Holme, *of* Sleagill, *near* Appleby.

You all know, I dare ſay,
Brother Scrub in the play,
At a bumper was ne'er known to fail;

Ev'ry day in the week
From work he would ſneak,
Save on Sunday, when bottling good ale.

Other ingenious ſeparate Anſwers *to the* Prize Enigma, *which we have not room for here, are inſerted at length, with the names of all the other Anſwerers, in our Supplement to the* Ladies' Diary, *printed this year, for the firſt time, and ſold ſeparate, price Six-pence; containing alſo general* Solutions *of the* Enigmas, Rebuſes, *and* Charades, *as alſo a complete Alphabetical Liſt of the names, with the numbers, of all the* Enigmas *that have been given in the* Diaries, *from their commencement in the year* 1704, *down to the preſent time.*

All the Enigmas anſwered by the Rev. T. Baker.

Ladies, once more, your humble ſuppliant comes,
By *Hope* ſupported to your ſpacious rooms. 1
As twilight uſhers in the new born *May*, 11
Here meek-ey'd Charity leads on the way.
No tuneful *Philomel* withholds your *ſleep*, 5, 3
Nor *Auctioneer*, with all's too cheap—too cheap; 8
No *Saddled* Courſer at your *Bell* appears, 4, 7
But your fam'd *Paper* the petition bears. 9
Here then, ye Fair—ye learned, rich and great,
For *Sunday* ſchools, I come an advocate. 12
An inſtitution on as uſeful plan,
Perhaps, as ever reach'd the heart of man;
None better calculated to improve
The mind in true benevolence and love;
Your kind protection muſt ſecure ſucceſs,
And thouſands draw from ſcenes of wickedneſs.
Here they're united in one friendly band,
And to the houſe of God go hand in hand;
Their parents too, will oft well pleas'd repair,
To meet their children in the houſe of pray'r.
Wou'd you, each Sabbath, to the ſacred dome,
See the vaſt offspring of th' unlearned come?
Or ſwift from miſchief, ignorance and play,
Theſe candidates for glory draw away?—
Wou'd you, when on the bed of ſickneſs laid,
Gladly receive your bleſt Redeemer's aid?—
On your *Warm Pillow*, languiſhing in pain, 2, 10
Wou'd you that great Phyſician's help obtain;
And in the melancholy hour of death,
Amidſt his ſmiles, in peace reſign your breath?
Nothing beneath the ſun will chear you more, 6
Than that which you have done to ſave the poor.

The same answered by Miss Betty Smales.

Does Eland suppose, like an old *Auctioneer*, 8
Exalted above us to proffer
Old *Pillows*, old *Warming-pans*, *Saddles* and gear, 10, 2, 4
I'm glad to accept a good offer?

Not so, gentle youth—in the bloom of my years,
New sweethearts I get when I please,
My *Sleep's* undisturb'd with domestical cares, 3
I enjoy a sweet *Sabbath* of ease. 12

You may waste ink and *Paper*, and puzzle your brain 9
On subjects more worthy your muse,
Kind answers from me you shall never obtain,
Nor is it unjust to refuse.

Say why does the swain breathe his balsamic fire?
Tho' *Nothing* can equal his verse, 6
It kindles not *Hope*—yet his strokes I admire, 1
But hark—I've a tale to rehearse.

Last *May-day*, as blithsome I danc'd on the green, 11
Amidst the gay rustical throng,
The lads of the village all hail'd me their queen,
And the shepherds were pleas'd with my song.

Young Damon the lovely, the pride of the swains,
Enraptur'd attended the while,
Then talk'd about love in such heart-stealing strains,
That I could not refuse him a smile.

Rich garlands of blue-*bells*, and primroses sweet, 7
He drest up with negligent art,
My hand to salute he oft kneel'd at my feet,
And he whisper'd away my fond heart.

Since when, if I meet him in mead or in grove,
As careless I ramble along,
Sweet *Philomel* echos the praise of my love, 5
And Damon approves of my song.

Mr. Tho. Woolston's *Answer to the Enigmas, Rebuses, and Charades. Addressed to the ingenious Supporters of* Lady Diana.

In a peaceful warm spot, in a neat country town,
On the banks of the Charwell, I set myself down,
Some eight years ago, when I married a wife, *Enig.*
In *Hope* to improve the enjoyments of life. 1
E'er since fledg'd with comforts the moments have fled,
And peace and contentment have *pillow'd* my head. 10
No loud *auctioneer* here disturbs my *repose*, 8, 3
But I calmly look round at the world as it goes;
And tho' busy, in chearfulness passes the day,
And only am dull when Maria's away.

In

In return, whilſt I manage more weighty affairs,
She leaves *nothing* undone that can ſoften my cares. 6
So when the day's clos'd, to enliven the night,
I read the enigmas, which give her delight:
Of *warming pans*, *ſaddles*, of *Philomel's* lay, 2, 4, 5
Of *Sunday*, of *paper*, of *bells*, and *May day*. 12, 9, 11, 7
Thus mutually pleas'd, without diſcord or ſtrife
We tranquilly glide down the river of life,
Nor wiſh from each other abroad more to roam,
Since we find our chief happineſs centers at home.
Meſſrs. *Richardſons*, *Pearſon*, and all who engage *Rich.* 2, 4, 5
In the circle to grace fair Diaria's page,
Having read this ſhort ſketch, if you relliſh the plan,
And are willing to know ſomething more of the man,
You may find yours *T. Woolſton*, moſt days in the year, 1
Near the *Church-yard* at Adderb'ry, in fair Oxfordſhire. *Ch.* 3
No fine Turkey *carpet* e'er fell to my lot, 1
But hearty kind welcome you'll find to my cot,
And the beſt it affords. Tho' I hope you're inclin'd
To a much higher banquet, the feaſt of the mind.
On the *rainbow* and *loadſtone*, ſuch topics ſublime, 8, 4
I could wiſh to converſe, to improve well the time.
And to pleaſe my fair gueſts we would paſs a few hours
'Mong the ſhrubs of Parnaſſus, in culling ſweet flowers,
To form a bouquet for the Diary next year,
If our Editor pleaſes to let it appear.

The ſame anſwered by Eugenio, *of* Banbury.

Behold, ye lovely Fair! exalted here 1
A novelty—a rhyming *auctioneer*: 8
One who defies the whole informing crew,
If regiſter'd, and licenc'd but by you.
For the kind look that every heart beguiles
Alone I ſell—and who ſhall tax your ſmiles? —
Firſt, then, ſince *pillows*, beds, and rooms are cold, 10
My patent ſtoves and *warming pans* behold: 6
But if the roſy bluſh of health you prize,
With prudence uſe them, or that bleſſing flies.
In vain ſhall cygnets their ſoft downs ſupply,
To lure ſoft *Slumbers* to the reſtleſs eye: 5
In vain ſhall *May* her blooming charms diſcloſe, 12
Paint the gay landſcape, ſcent the bluſhing roſe;
In vain, *ſweet warbler!* (*nothing* can delight) 10 5, 6
Shall thy ſoft ſong the lengthen'd walk invite;
Ev'n *Pope* ſhall fail—but whither do I ſtray? 1
My *paper*, *ſaddles*, *bells*, will ne'er be ſold to-day 9, 4, 7
To-morrow then—yet hold—To-morrow's *Sunday*, 12
Requeſt we, then, your gentle ſmiles on Monday.

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Sylvia's *Apology to* Caſtelio, *on his complaining of her aſking him to write, and giving him no Subject.*

Caſtelio accept of my lay,
Awhile your reſentment ſuſpend,
Forgive the requeſt of the day,
And Sylvia ſtill is your friend.

'Twas cruel to aſk, and not chuſe
A theme for thy elegant wit,
But now, to aſſiſt the fond muſe,
Twelve ſubjects I've luckily hit.

Hope, warming-pan, pillow, and *ſleep,*
A *nightingale, paper,* and *bill;*
Of my *auction* I pray take a peep,
Sure one of the ſubjects will ſell.

Four others remain ſtill behind,
Nothing, May-day, a *ſaddle,* and *Sunday;*
Here matter enough you may find,
Should you write ev'ry moment till [Monday.

The ſame anſwered by Mr. I. Townſend.

Hark! the *auctioneer's* avowing,
Ink and *paper* by him ſtand;
"Ladies now 'tis juſt a going,"
See the knocker in his hand.

Saddles, pans, nor *bells* invite me,
Poliſh'd ſteel, nor blaſon'd arms,
Far more pleaſant ſcenes delight me,
Full of ſweet and laſting charms.

Lo! a lovely train aſpiring,
Walking in the ways of truth,
Theſe, the heav'n-taught ſoul admi-
Animates the blooming youth. [ring,

Hope ſits ſmiling on each feature,
Chearful as a *May-day* queen;
Philomel, tho' lovely creature,
Never wore ſo bright a mien.

Heaven propitious on them ſhining,
Kindly deigns their ſteps to keep,
Thro' night's ſhades without repining,
Safely on their *pillows ſleep.*

Free from ſlander and from folly,
Nothing can diſturb their eaſe,
For they keep the *ſabbath* holy,
Wiſdom's ways are paths of peace.

Couſin Fanny's *Viſit. By Miſs.* J. C. *of* Bath.

Long time I ſtrove, but ſtrove in vain,
Your prize enigma to explain.—
"The captain of a choſen few,
"Whoſe elder brother is a Jew:
"When this is rais'd, that is declin'd,"
Nothing in nature can I find
That will the leaſt reſemblance bring.
But hark! I hear the door-*bell* ring:
'Tis couſin Fanny, ever ſeen
Blithſome as a *May-day* queen.
Come ſit my love, and let me hear
How you like Lady Di. this year.
Why ma'am, indeed I like her well,
I think ſhe this year doth excel
All I have ſeen; for there you'll find
Moſt curious things of every kind.
Ah eaſy *ſaddle* they prepare,
For theſe inclin'd to take the air;
But ſhould the ſky forebode a ſhower,
At an *auction* you may waſte an hour.
Each ev'ning when the moon ſhines bright,
Sweet *Philomela* gives delight;
Should balmy *ſleep* his poppies ſhed,
There's downy *pillows* for your head;
And what, dear ma'am, is ſtrictly true, [too.
Leſt you take cold, they'll *warm* them
This morning I brought theſe to light,
And 'pon my word I think they are right.
This morning coz! I'm in ſurprize!
Why I've ſought longer for the prize;
And thou't ſucceſs was giving o'er
The inſtant you rung at the door;
But as all theſe you've found in one day,
I'll now *hope* for the prize by *Sunday.*
Come, Fanny, as we've ſat ſo long,
We'll have a cup of nice ſouchong.
No, really, ma'am, I cannot ſtay;
I'll call again another day,
Then we'll again the theme renew.
Your ſervant, ma'am.—Dear coz adieu.

The

The same answered by Mrs. Sarah Porril, *formerly Miss* S. Walker.

Adieu ye melancholy shades,
Where *Philo*, sung my wild desires.
Ah fly, my soul, the lonely glades,
A husband claims my *warmest* fires.

Tho' racking pangs, and grief and cares
Have my unstable mind oppress,
I cherish *hope* that future years
May bring me *downy days* of *rest*.

Our hearts for diff'rent causes bleed,
Passion and *pride* such woes create;
But bounteous heav'n is kind indeed,
To hide from us the *page* of fate.

The show of wealth I envy not,
Neither for fame nor titles long,
Simplicity *embellishes* our cot,
Far distant from the *bawling* throng.

I'll e'er prefer the friendly kind,
To them who breathe malignant breath;
In those a healing balm we find,
In these we've *nought* but stings and death.

The same by Mr. Jos. Cowing, *Schoolmaster, of* Hexham.

My dear Lady Di,
This ev'ning I'll try
Your enigmas, tho' hid in disguise;
In *hopes* to attain
Both *saddle* and fame, [prize.
If by chance you should grant me the

But when I proceed,
Sleep puzzles my head, [strain;
And the ringing of *bells* checks my
I ne'er in my life
Lov'd clamour or strife,
So an *auctioneer's* life I disdain.

My wife she says Jo,
'Tis *Sunday* you know, [wed;
And *May-day* 12 months we were
The house was complete,
With furniture neat,
Both *pillows* and *pan* for the bed.

She spoke with such grace,
Love glow'd in her face,
The *nightingale's* voice not more clear;
Tho' *nothing* pertains
To me for my pains;
Adieu to your *book* till next year.

Miss Alexia Corney *thus answers them.*

Ye nymphs, and ye gay rustic swains,
Who joyously revel and play,
Prepare all the sports of your plains,
With me come and hail the new *May*.

With pleasure we'll carol along,
Hope tells us there's nothing to harm,
And *Philo*. shall swell the sweet song,
And the *bells* shall the slumbers alarm.

On my *paper* I'll write to my swain,
I'll bid him his *pillow* forsake,
Nor *sleep* any longer maintain,
But a *sabbath* from labour to take.

We no *saddle* or *warming pan* need,
Nor for *auction* have here any room.
Come my Strephon, dear youth fly with
And to this festive holiday come. [speed

On the Accomplishment of ——, *and addressed to* ——.

By Mr. John Unwin, *of* Wirksworth.

Emma's fair as sweet *May-day*,
Handsome, witty, young, and gay;
Tuneful voice that far excels
Charming, plaintive *Philomel's*.
Virtue is her constant care,
Sabbath-day she spends in prayer;

All the riddles soon can tell,
Paper, *auctioneer*, and *bell*;
When the mystic veil she clear'd,
Pan and *saddle* plain appear'd.
All the charms of womankind
Center in her form and mind.

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O most worthy Emma fair!
Object of my tender care;
Such the power your charms have wrought,
You're my constant wish and thought.

What a train of airy dreams
Round my *slumb'ring pillow* swims!
O my joy, my *hope* of life,
Condescend to be my wife;
If you won't that bliss impart,
Nothing can delight my heart.

Mr. G. R.'s Complaint for the Flight of his Mistress.

Answering the Enigmas, Rebuses, *and* Charades.

Fond *hope* has not fled from my breast,
Since Jenny hath quitted the plain;
Alas! I'm a stranger to *rest*,
I fear a more fortunate swain.

Could *nothing* entice her to stay!
The groves in full verdure are dreft;
And *Philomel* warbles her lay,
As if by my anguish *oppreft*.

The fields like a *carpet* are spread,
With flowers of various dies;
The *rainbow* that's seen over head,
Shews not half so fair to the eyes.

'Twas only last *Sunday* in *May*,
She *bid* me to hope for her hand;
What then can *attract* her away!
I can't for my life understand.

I've consulted my *pillow* each night,
And bro't each transaction to mind;
But still I'm bewildered quite,
A plausible reason to find.

It ap-*pears-on* my side very bad,
And seems as I had misbehav'd;
Yet no quarrel we ever have had,
I vow as I hope to be sav'd.

Should you see my fugitive fair,
Dear ladies pray write me a line;
Or if I may find her say where,
To comfort this *querm* heart of mine.

All the Enigmas, Rebuses, *and* Charades, *answered by* Minor.

One *Sunday* last *summer* I *saddled* my steed;	12, 11, 4
For *Pearson* and I over night had agreed	R. 3
A sweet sentimental excursion to take,	
And visits to *Woolston* and *Richardson* make.	R. 1, 4
Assur'd of a welcome with friends such as these,	
Whom alike we esteem, alike wish to please;	
So with one we would dine, and just take a glass	
With 'tother the night we concluded to pass.	
And, as business requir'd our speedy return,	
We'd start from the *pillow* betimes the next morn,	10
And not like poor *Philo.* lie *dosing* all day.	5, 3
This being premis'd, we both posted away.	
No *rainbow* portentous of storms did appear,	*Ch.* 2
And nature's rich *carpet* embellish'd the year.	*Ch.* 1
Admiring the prospect we saunter'd along,	
And pass'd the *church-yard* while the *bells* sweetly rung:	*Ch.* 3. *E.* 7
For Damon, a stranger to love's lambent fire,	
That morning had wedded the niece of the squire,	
A doudy who *nothing* but riches could boast;	6
For which he a treasure far greater has lost,	
By leaving a nymph who for beauty and wit,	
None ever could vie, but *Jane Richardson*, yet.	R. 2
As the wretch was unworthy a maid so divine,	
I hope the sweet charmer will scorn to repine	

For

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For a mean *auctioneer*, whoſe *loadſtone* is pelf, 8, *Cb.* 4
And bargain'd for life with no care but for ſelf.
The pleaſure we ſought in ſo pleaſant a ride,
On this ſad occaſion was now laid aſide;
For home I return'd, quite reſolv'd that ere night
The whole of this matter I fairly would write.
That it might in the *paper* next morning appear;
And the ſtory be blazon'd about far and near.

Other Solutions *of the* Enigmas, *with a liſt of the Names of the Anſwerers, may be ſeen in our Supplement.*

ANSWERS *to the* REBUSES *and* CHARADES.

Rebuſes. 1 Woolſton, 2 Jane Richardſon, 3 Pearſon, 4 Richardſon.
Charades. 1 Carpet, 2 Rainbow, 3 Church-yard 4 Loadſtone.

Sylvia's *Anſwer to the* Rebuſes.

Friend *Woolſton* doth virtues poſſeſs,
Sobriety, honeſty, truth;
And each day his Maria doth bleſs,
Growing age for the cares of his youth.

Tho' *Richardſon*, *Pearſon* may crave,
I adviſe Bob to wed his fair couſin,
But hold! a good wife he may have;
'Twould be vain then to pick out a dozen.

The Charades *anſwered by* Juvenis Boxonienſis.

By *Loadſtone's* aid, with mathematic lore,
The mariner undaunted quits the ſhore,
In queſt of gain that foreign clime affords,
From Perſia's *carpet*, or Golconda's hoards:
Metes out the heaven to know its watry way,
Or *rain-bow* born from ſol's reflected ray.
But ſhould old Ocean on his projects frown,
Or ocean's author, for wiſe cauſe unknown,
Oppoſe in full extent his hopes, his care,
He ſinks he dies, no peaceful *church-yard* there.

The Rebuſes *and* Charades *anſwered by Mr.* John Jackſon, *of* Hutton-Rudby *School.*

Tho' *Woolſton* be verſed in curious rhyme,
Jane Richardſon alſo be fair;
Tho' *Pearſon* be virtuous too as the Nine,
And *Richardſon* verſes prepare:

On the *carpet* of life, thro' the well chequer'd year,
If the tokens of *rain-bow* they mind;
In the *church yard* at laſt, they all muſt appear,
Death's *load-ſtone's* attraction they'll find.

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The same answered by Mr. Philip Rusher.

Tho' *Woolston* or *Richardson* others excel
In painting a *Rain-bow*, or writing verse well;
Tho' *Pearson* like loadstone attract by her hair,
Jane Richardson too be the pride of the fair;
They all must submit (may far hence be that day)
Beneath the green *carpet* in *church-yard* to lay.

The Wedding; *by Miss* J. C.

What numbers are met in the *church-yard* below,
They quite hide the gay *carpet* of green!
In colours more splendid than *Iris*'s *bow*,
The lovely *Jane Richardson*'s seen.

Her silks are the choice of her brother, they say,
Who, like *Woolston*, his muse makes his pride;
The *loadstone* which draws them together to-day,
Is that Walton makes *Pearson* a bride.

The same answered by Mr. John Fildes.

As Miss *Jane Richardson* and *Pearson* seem
Two beauties whom we can't enough esteem;
So *Richardson* and *Woolston*'s matchless lays
Deserve all honour, and excel all praise.

In the richest *carpet* we can only view
A faint resemblance of the *rain-bow*'s hue;
The church-yard swallows thousand's ev'ry year,
And the *loadstone* shews the seamen how to steer.

The Rebuses *answered by Mr.* William Bearcroft, *of* Nawton.

Miss *Richardson* is justly prais'd,
And *Pearson*'s virtues sure have rais'd
Friend Walton's am'rous fire:
When *Richardson* and *Woolston* deign
To sing in enigmatic strain,
We wonder and admire.

The Charades *answered by Mr.* T. B.

Tho' haughty Turks their *carpets* tread,
With *rainbow* colours dye;
The *church-yard* is the *attractive* bed
Where all distinctions lie.

The same answered by Mr. John Rusher, *of* Charlbury.

Ye who have large possessions of your own,
Who walk on *carpets*, and who sleep on down,
Whose raiments with the splendid *rainbow* vie,
Reflect—in each *church-yard* what numbers lie.

The

The sov'reign *loadstone* which attracted them,
Will quickly draw you to the silent den.

See other Answers, with the list of Names, in the Supplement.

ANSWERS to the QUERIES.

QUERY 1. *answered by Mr.* G. Lodge, *of* Linton.

Caoutchouc, Indian Rubber, or Leadeater, are names given to a very elastic gum or resin, the produce of a tree which grows along the banks of the river of the Amazons. A very full account of which, and its singular properties, may be seen under the above word in the last edition of *Chambers's Cyclopædia.*

The same, by John Dalton, *of* Kendal.

The Caoutchouc, or elastic gum, is an artificial production, made by combining smoke with the juice of an unknown tree, a native of Spanish America, as also of India and China. The European chymists are yet unacquainted with the process by which this combination is effected, as well as of the means used in forming it into bottles, the shape in which it is mostly seen in Europe. Some account of it may be seen in some late Elements of Chymistry, written in French.

QUERY 2. *answered by Mr.* Alex. Rowe, *of* Reginnis.

Between the arbors of a shady grove,
The seat of pleasure, or the scene of love;
Where gaudy songsters tune their matin lay,
And hail the rising of the purple day.

The same by Mr. John Jackson, *of* Hutton-Rudby *School.*

The place alluded to by this query, must be the situation of the eye; which either in the tallest person seen here, is scarcely 3 ells, of 3 quarters each, from the earth; or, otherwise, is that situation in the heavens, where an eye being placed, can only view the diameter of this earth apparently 3 ells broad.

QUERY 3. *answered by Mr.* G. Dixon, *of* London.

The properties of fire are as yet but imperfectly known; yet we may reasonably suppose that it cannot exist without air, and indeed requires a pretty strong body of it for its support. Now by the heat of the sun the body of air is rarefied, and consequently the force destroyed which it would otherwise have, did not the sun shine upon it.

Mr. *John Dalton* says, The reason why the sun, shining upon the fire, renders it so languid, seems to be owing to its rarefying the circumambient air. For it has been proved from a variety of experiments by Boyle and others, that combustible bodies burn with more or less vehemence, as the air they are in is condensed or rarefied.

And Mr. *Jonathan Hornby*, of *Westerdale*, says, The fire does not really go out, but only apparently so, on account of the sun's rays being more luminous than those of the fire.

QUERY

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Query 4. *answered by Mr.* John Burrow, *of* Bolton Field.

Pledges were of very early date, as appears from *Exodus*, xxii. 26. and *Deut.* xxiv. 10. 17, and several other places. The ancient pledge was a piece of silver, which was worn in the pocket. And as marriage was always held sacred, it was afterwards thought more prudent to have the pledge exposed more to view, by making it into a ring, and wearing it on the hand. And the fourth finger of the left hand was made choice of, because anatomists had discovered a vein which went from it to the heart; whence it might be truly said that the heart and hand were united.

The same, by Mr. Henry Lee, *of* Bingham.

The custom was introduced by the ancients, who used to present their mistress with a ring, meaning thereby to express, as a ring has no end, so there should be no end of that love which is necessary to constitute connubial felicity. And it was put upon the fourth finger of the left hand, because anatomists affirm that there is a vein in it having a direct conveyance to the heart, which is the source of love and affection.

See other Solutions of the Queries, and a list of the Names, in the Supplement.

New Enigmas.

I. Enigma 697, *by* Eugenio.

My num'rous beauties to compose
The elements combine;
And Art her friendly aid bestows,
To make those beauties shine.

A thousand lovely hues I wear,
A thousand shapes assume;
At court I decorate the fair,
And deck their native bloom.

Yet not to courts alone confin'd,
Or but in cities seen;
With rustic nymphs I favour find,
With them I tread the green.

When I my novel charms unfold,
By belles and beaus I'm priz'd:
And yet, how strange! if clad in gold,
By misers am despis'd.

Thousands by me are daily fed,
And all their wants supply'd;
Then let it not be falsely said,
I only heighten pride.

II. Enigma 698. *By Mr.* W. W. Crowle.

What prying eyes look for with care,
And range the woodlands thro',
I here present, ye lovely fair,
In mystic lines to you.

For you, 'tis known can, if you please,
Resolve each deep design:
Nothing can puzzle you, or tease,
Whose wits so bright do shine.

A palace rotunda I am seen,
Built by no vulgar hands;
A palace fitting for a queen,
As soon you'll understand.

In flow'ry meads, on hills, in vales,
In lonely woods, in shade,
In leafy groves, in verdant dales,
In fertile fields I'm made.

Upon the cliff I too am found,
And in the ragged rocks; [ground,
'Mong fern, and ling, on barren
In thickets, among flocks.

My maker, like the timorous hare,
Unwilling to reveal,
With art and labour takes due care
My being to conceal.

Of what I'm made I shall not say,
That I'll not bring to view:
My maker dwells in me in May,
In April makes me new.

But long ere now, I make no doubt,
Your piercing eyes have seen
What here is hid, you've found it out,
And robb'd both king and queen.

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III. ENIGMA 699, *by Mr.* R. Dening of Chesterton.

A monster rare, ye ladies fair,
Himself now introduces;
In hopes that you will quickly shew
The world his name and uses.

Devouring wretch, all he can catch,
He instantaneous seizes;
Has millions stout, I make no doubt,
Torn in ten thousand pieces.

Greedy of prey, day after day,
He runs with rapid motion;
Should you come near, his voice you'd hear
Loud as the troubled ocean.

But then take care; he'll never spare;
He's wondrously ferocious:
When you come by an enemy,
You cannot be too cautious.

Take one hint more, and then explore
What here has been related;
This monster's food, right understood,
Is ours transmigrated.

IV. ENIGMA 700, *by Miss* Amelia Harpur.

In country, city, court I'm found;
Where'er you go I do abound;
The fairest belles I oft embrace;
To me they owe each charm, each grace.
Tho' I've no elegance, nor sense,
These pleasing pow'rs I can dispense;
Yet this one truth I needs must say,
Folly as freely I display;
And oft those opposites I bear
In the same breath unto your ear.
When music does the heart controul,
And with her magic charms the soul,
I must direct th' enchanting strain,
Or not a note you can obtain.

As to my stature shape, or face,
'Tis here impossible to trace;
But to susceptible's my make,
With ease I all impressions take.
My disposition you will find,
Is sometimes rough, at others kind;
Often with heat intense I glow,
And oft am cold as Alpine snow.
Mild as Cyprea's gentle doves,
And sportive as the rosy loves;
Sweet as the lily's fragrant breath,
Or noisome as the house of death.
Ladies these opposites compare,
And my true name will soon appear.

V. ENIGMA 701, *by Mr.* William Evans.

By yawning cliff, and craggy dell,
And circling hills I'm found to dwell;
By winding stream, and shady grave,
Where such as mourn, and such as love,
Retire to vent their bliss or care,
While I their joy or sorrow share.
But not to rural scenes alone,
In towns and palaces I'm known;
Hid in the monumental tombs,
Hovering round the lofty domes;
At Paul's I hum the pious lays,
At Drury clap the actor's praise;
And curious prying wights who mind
In many a lane and corner find me.
Me,
And when contending martial powers,
Each on each their vengeance showers;
And murderous engines rending roar,
Shake the earth from shore to shore;
Then I to join the general cry,
Mount in air, and scale the sky:
Yet what I am, where'er I've been,
I never was or can be seen.—
'Tis now an easy task, ye fair,
This something—nothing to declare.

VI. ENIGMA 702, *by* Amintor.

In northern climes where winds tempestuous blow,
And landscapes terminate with hills of snow,
With stature far above my neighbours blest,
I proudly rear'd my lofty tow'ring crest.

In

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In time my greatneſs and my cloud-capt fame,
Is levell'd with the duſt from whence I came;
And now a monſter with his devious teeth,
In my torn heart ſecures himſelf a ſheath,
With rage rapacious gnaws my vitals through,
Though no advantage does to him accrue.
I'm then tranſported from my native land,
And on fair Albion's iſle next take my ſtand;
Here my inveterate foe my courſe purſues,
And with freſh malice former ſpleen renews.
By tortures manifold my frame's disjoin'd,
My many parts to many fates confign'd;
But one above the reſt ſtill undergoes
Torments immenſe ere it oblivion knows;
Remorſeleſs ſteel betwixt each fibre glides,
And numerous particles from one divides;
When ſeparated thus in bonds we're bound;
Nor have our woes a termination found;
The tortures which the holy ſcripture ſaith
The wicked muſt experience after death,
We next endure.—But hold, I've ſpoke too plain,
Hence doubtleſs ſoon you will declare my name.

VII. ENIGMA 703, *by Mr.* Tho. Jackſon, *of* Belper.

She comes! ſhe comes! the baleful murd'reſs comes!
Her head adorn'd with hiſſing ſnaky plumes;
Her down-caſt eye darts forth an angry gleam;
Her livid cheeks an inward woe proclaim:
Save when ill-fated genius feels her power;
'Tis then, with joy, her murky heart runs o'er,
As late—when an aſſociated band
Their dread artillery put in Fungus' hand;
Whilſt unprepar'd, devoted to their ſpite,
I felt her congregated poiſon's bite.
She herds with ignorance; yet her conſtant play
Is to purſue where merit leads the way;
Which when ſecureneſs aids her coward power,
Is ſure to feel th' aſſaſſinating hour.
But if detected, and her labour loſt,
Oh, with what ſad convulſions is ſhe toſs'd!
She pines, ſhe writhes—and in a viperous rage,
With ſubtle poiſons doth herſelf engage;
Unus'd to live, if worth ſuperior riſe,
She wounds her vitals, ſhrinks from ſight, and dies.
Ye witty fair! this demon's name reveal;
And never let your minds her preſence feel.

VIII. ENIGMA 704, *by Mr.* J. J. *of* Bungay *School.*

Peace to the woodlands, and the winding ſhore,
No longer let the ſhepherd tell his tale;
Now let the vocal throng be heard no more,
Nor plowman whiſtling in the lowly vale.

For

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For lo, I come, with ſilence in my train,
With balmy reſt to eaſe the brow of care,
To lull to ſleep the memory of pain,
While meditation leadeth up the rear.

Now to the crowded ſcenes of gay delight,
Where pleaſure ſmiles amid her gaudy train,
I lead the fair, the Britiſh fair ſo bright,
Where gilded faſhion ſpreads her wide domain.

I call ſweet airy fancy from afar,
Who forms with varying hand the tranſient dream;
Then bid her mount her party-coloured car;
Enough—the fair will now perceive my name.

IX. ENIGMA 705, *by Miſs* Betty Smales.

When roſy morning bids the tuneful throng
From woods and valleys ſwell the general ſong,
And early nymphs and ſhepherd ſwains ariſe,
I leave the grov'ling world, and mount the ſkies,
But ſtrait's the gate, and narrow is the way
I paſs, to reach the bliſsful realms of day:
My parent ſmiles when I'm exalted high;
But when I leave her, ſhe prepares to die:
Soon as I'm born I quit her foſtering breaſt,
And wandering ſeek in vain a place of reſt.
But ſhould I deviate from the narrow road,
I grieve the ſaint, and draw his ſoul from God.
I bring diſorder'd looks, and broken ſighs,
Prayers and curſes, frowns and weeping eyes.
Tho' all diſdain my preſence to attend,
Yet kitchen Doll will own me for a friend;
There, an uſurper, I ſupply the place
Of one that thinks his freedom no diſgrace
In hoſtile fields where thundering cannons roar,
And dying ſoldiers welter in their gore,
I rove amid the croud, a foe to breath,
And make more horrible the field of death.

X. ENIGMA 706, *by* Zythum.

Ye meddling tribe of buſy mortals, huſh!
For once prevent a maid the modeſt bluſh;
Withhold ſarcaſtic jeats, ye ſneering ſophs;
Guardians forbear your menaces and ſcoffs:
While I my wiſhes and my worth explain,
In hopes a faithful, loving, ſpouſe to gain.—
No bonny laſs in health was e'er more gay;
No lark in ſpring, no lambkin when at play;
Yet prudence guides my ſteps; for I diſdain
The fly ambition of the treacherous ſwain.

What

What can't a female? Honour is my view,
From cenſure free, unſtain'd with folly too.
Can beauty pleaſe? Can elegance of mein?
Behold in me the charms of England's queen.
The lily and the roſe adorn my face,
That virgin bloom, to chaſtity a grace.
In order rang'd my jetty ringlets flow,
And on my lips harmonious numbers glow.—
Great Newton is my friend; through him I ſcan
The works of nature, and the ways of man;
Explore the orbs; deſcribe the motion given
To ſun, to moon, and all the hoſt of heaven.—
The various readings of the ſacred page
Claim my attention, and my parts engage,
The cavils of the atheiſt to controul,
Confirm the good, and fix the wav'ring ſoul.—
Now for my favour'd choice ſhould e'er I wed,
And take a partner to the bridal bed,
Sound ſenſe muſt be his lot, his manners mild,
Old in ſtrict virtue, but in vice a child;
Polite and learned; not with pride o'ergrown;
A tender heart congenial with my own.—
Some prudiſh nymphs, more coy than chaſte, may blame
This honeſt freedom, and this virtuous flame:
But ſtop your cenſure, rancorous ſpleen abate,
Firſt find the name of this my wiſh'd for mate;
A *rara avis* he, for when he dies,
Soon will another phœnix from his aſhes riſe.

See the reſt of the new Enigmas in the Supplement.

New Rebuses, Charades, *and* Queries.

I. Rebus, *by Miſs* Emily Rivers.

The fair who for love of Ulyſſes did ſigh;
The ſad, ſolemn bird that in darkneſs does fly;
The muſical man who in hell fought his bride;
The name to the young of a goat that's apply'd.
Th' initials connect, and a hero yon'll find,
In whom worth and valour moſt rare were combin'd.

II. Rebus, *by* W. H. Hall, *Eſq; Barriſter at Law.*

One ſeventh of a dame that we oft times invoke,
With the name of a beaſt that belongs to the yoke,
Produces a perſon in Britain well known,
Whoſe fame ſtands unrivalled, his enemies own.

III. Rebus

III. Rebus, *by Mr.* Geo. Stevenson, *Master of the Boarding-School, West Boldon, Durham.*

Suppose Aurora's offspring bright,
(Which in verdant meade you'll often find)
Appears reversed in your sight,
Ladies no doubt but in your mind,
You then will wish and hope to be,
What then before your eyes you see.

IV. Rebus, *by Mr.* William Boyer, *of Leyland, near Preston.*

To the beauteous dame for whom in days of yore,
So many Trojans fell in streaming gore;
Two-sevenths of her of whom the Spartans sing
Was daughter, wife, and mother to a king;
A river famous in the British land,
Two-thirds of it, and then you've at command
The name of one whom I so much revere,
And in my eyes is queen of all the fair.

V. Rebus, *by Mr.* S. Oxley.

To two-thirds of a bird of which poets have sung,
Add half of the place where she hatches her young.
To three sevenths of a vest, add a lion's retreat;
Then the first son of Judah the name will complete
Of a beautiful damsel who shines in the north,
For virtue far famed, and matchless in worth.

See the Charades in the Supplement.

I. Query, *by* W. H. Hall, *Esq. Barrister at Law.*

Why is sound more distinct at night than in the day-time, though our faculties and the doctrine of sounds do not change?

II. Query, *by Mr.* James Williams, *of* Colyton *School.*

Whence or how arises the sound commonly called the singing of the tea-kettle?

III. Query, *by Mr.* Henry Lee, *of* Bingham.

Would it contribute to the happiness of the married state, were divorces more easily to be obtained?

IV. Query, *by Mr.* J. Jackson, *of* Hutton-Rudby *School.*

It is no less remarkable than true, that in the splitting of marble blocks, freestone, and even flinty rocks, cavities have been found, containing one or more live toads in them, which on being exposed to the air, have soon after died. Can any account be given, how these have been generated, or how sustained, in such a situation?

V. Query,

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V. QUERY, *by Mr.* W. Bearcroft, *of* Newton.

What is the reaſon that commonly the air is colder about the time of ſun-riſe and ſun-ſet, than it is either before or after?

VI. QUERY, *by Mr.* William Clark, *of* Wiſtow, *near* Selby, Yorkſhire.

What ſyſtem of philoſophy gives us the moſt convincing and demonſtrative proof of the immortality of man?

*** *The Editor congratulates his numerous readers on having this year, as the frequent ſolicitation of many of his learned contributors, made room for a much greater number than uſual of their very ingenious compoſitions, which it has always hitherto been with heart-felt reluctance that he was obliged to ſuppreſs for want of room. This deſirable end he has attained by the publication of a* Supplement to the Ladies' Diary *this year*, price 6 pence, *(to be had ſeparately of the ſame perſons who ſell the Diary itſelf), containing an alphabetical liſt of all the Enigmas that have been printed ſince the commencement of the Diary in the year* 1704, *with a great variety of the original compoſitions of our correſpondents. And this Supplement being intended as an experiment this year, it is hoped that all true friends of the Diary will promote the ſale and knowledge of it as much as in their power, that the Editor may judge how far it is agreeable to his readers to continue ſo great an improvement of the Diary in future years.*

There will be eight prizes, to be determined by lot as uſual, viz. two of 8 *Diaries and Supplements for the* Solution of the Prize Enigma, *two of* 8 *Di. and Sup. for the general* Solution of the Enigmas; *two of* 6 *Di. and Sup. for the Solution of the* Rebuſes, Queries, *&c. alſo one of* 10 *and one of* 8 *Diaries for the Solution of the* Prize Queſtion.—*All our correſpondents letters muſt be ſent before the 1ſt of May, and the ſeparate Solutions of the Prize Enigma and Prize Queſtion before Candlemas Day, and all franked or poſt paid, or they will not be received, many having being rejected laſt year on that account.—They are alſo ſtill requeſted to make their compoſitions as brief as they can; and muſt obſerve to ſend Solutions with every thing new that they propoſe.*

In anſwer to ſeveral who enquire for the early Diaries, it is obſerved that the republication of the whole till the year 1773 *inclusive, in* 5 *vols. by Dr.* Hutton, *may be had at* Robinſon's *or* Baldwin's, *in* Paternoſter Row, *viz. the Poetry in* 2 *vols. and the Mathematics in* 3 *vols. alſo his Mathematical Miſcellany in* 1 *vol.*

ANSWERS

Answers to the Mathematical Questions.

I Question 863 answered by Mr Tho Wolfson, of Adderbury.

From the second equation take twice the first, and we have $x = 13 + x$; and from three times the 1st equation take the 2d, and we have $y = 7 - 2x$: substitute these values of y and x in the 3d eq. and we have $x^2 - \frac{1}{2}x = 8$: whence we find $x = 3$; and conseq. $y = 1$, and $z = 16$; therefore the word is Cap.

Let this ornament, ye fair,
Still adorn your flowing hair;
Lay no decent forms aside,
Modesty should be your pride.

The same by Mr Geo Roope, of Tring Academy.

By taking the 1st equation, and the double of it, from the 2d, we get $y = 33 - 2x$, and $x = z - 13$; these substituted in the 3d equ. give $158x - 6x^2 = 992$. Hence $x = 16$, $x = 3$, and $y = 1$; and the ornament is a Cap.

The same by Mr Ja Scholefield, Schoolmaster at Brumley.

From the 2d equation take double the 1st, and $z = x + 13$; take this from the first, and $y = 7 - 2x$; place these values of z and y in the 3d equation, which then becomes $6x^2 - 2x = 48$; hence $x = 3$, $y = 1$, $z = 16$, and the answer a Cap, an ornament becoming all modest women.

Various other ingenious answers were given by Messrs Jas Adams, Alensis, Amicus, Rd Ball, Rob Barwick, Mrs Eliz Bauſor, Wm Bearcroft, Geo Beſwick, John Birch, John Boden, R Bretherick, John Brownrigg, Wm P Burman, John Burrow, W C, John Canfield, John Cavill, Geo Clayton, S Clement, Tho Cock, John Cooper, Jos Cowing, Rob Crosier, John Cullyer, Jas Cunliffe, John Dakon, Rd Dening, G Dixon, Edw Emes, Rev L Evans, Evec Egroeg Semoj, M Fleck, Tho Gell, J Griffith, Henry Holme, Jonathan Hornby, J Hunt, Jno Jackson, Wm King, Tho Maſon, Jas Mercalfe, Wm Mudge, Jos Nendick, Geo Robarts, Chr Robinſon, Alex Rowe, Iſaac Saul, Joe Sherwin, Tim Simpſon, Jno Smith, Geo Stevenſon, Jno Surtees, Hen Taylor, Jno Howard, Matt Terry, Miſs Janetta Todd, Jno Unwin, J Walton, Rd Waugh, Wm White, Abel Whitehouſe, Jas Williams, Jas Wood, B Worſhip, Jos Youle, and Jas Young.

II Question 864 answered by Mr R Bretherick, of Kirkby-Overblow.

Those who would see this problem resolved in a general manner, for all polygons, may, I presume, have their curiosity abundantly satisfied by perusing the Scholium at pa. 81 of Dr Hutton's elegant Treatise on Menſuration. But for the sake of those who are not in possession of that book, I have copied one of the methods there laid down.

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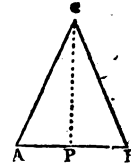
Suppoſe A B C to be one of the triangles which conſtitute any regular polygon: Then, "as radius = 1 : tang. ∠ C A P = t :: A P : P C = $t \times$ A P = $\frac{1}{2}t$, ſuppoſing A B = 1; then $\frac{1}{2}t$ (= A P × P C) = the △ A C B, and $\frac{1}{2}nt$ = the polygon; where n is the number of ſides. So that, by finding the tangent of the ∠ C A P, by the table of tangents, and multiplying it by the number of ſides, $\frac{1}{2}$ of the product will be the multiplier required. Hence we obtain 9·365640 the multiplier for the undecagon, and 11·196152 for the duodecagon.



The ſame by Mr John Dalton, Teacher of the Mathematics, Kendal.

In the example for finding the multiplier for a dodecagon, Hawney ſeems to have fallen into ſeveral miſtakes. After finding the perpendicular on one of the ſides, he multiplies it by ·5 or $\frac{1}{2}$, half the baſe or ſide of the decagon, which would give the area of one triangle, or $\frac{1}{12}$ of the whole; but by miſplacing the decimal point, he in effect multiplies the ſaid area by 10, and concludes he has found the whole area of the dodecagon, when he has only $\frac{10}{12}$ or $\frac{5}{6}$ of it. In like manner he has miſtaken $\frac{10}{11}$ of the area of the endecagon for the whole area.

In one or other of theſe ways is the anſwer alſo given by Meſſrs Jas Adams, Allenſis, Amicus, Jno Aſpland, Rd Ball, Rob Barwick, Mrs Elix Bauſor, Wm Bearcroft, Jno Birch, Jno Boden, Jno Brownrigg, Jno Burrow, W C, Jno Canſfield, Jno Cavil, Tho Cock, John Cooper, Jos Cowing, Jno Cullyer, Jas Cunliffe, Rd Dening, G Dixon, Rev L Evans, M Fleck, J Griffith, Henry Holme, Jonathan Hornby, Jno Howard, Jno Jackſon, Wm King, Jno Lowry, Jas Metcalfe, Wm Mudge, Geo Robarts, Chr Robinſon, Geo Roope, Alex Rowe, Iſaac Saul, Jas Scholefield, Tim Simpſon, Jno Smith, Geo Stevenſon, Jno Surtees, Henry Taylor, Matt Terry, Miſs Janetta Todd, J Walton, Rd Waugh, Wm White, Jas Williams, Tho Woolſton, Jos Youle, and Jas Young.

III Question 865 *anſwered by Mr M Fleck.*

Since the triangle is right-angled, the hypothenuſe $2b$ muſt be the diameter of the circumſcribing circle, which is given; then if $2s$ be the ſum, and $2d$ the difference of the legs, the radius of the inſcribed circle will be $= \frac{s-b}{2}$. Then ſince the given diſtance g is the hypothenuſe, and d and $s-b$ the legs of another right-angled triangle, we have $g^2 = d^2 + s-b^2 = 3b^2 - 2sb$; hence $s = \frac{3b^2-g^2}{2b}$, and $d = \sqrt{2b^2 - s^2}$. Which being now known, then $s + d$ = the greater leg, and $s - d$ = the leſs.

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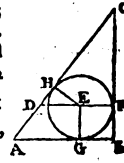
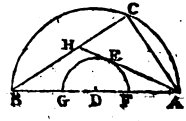
The ſame anſwered by Mr S Clement, Schoolmaſter, Arundel.

Put AD or DC $= a$, DE $= b$, HE $= y$, and DH $= z$; then will AB $= a + y + z$, and BC $= a + y - z$. Now by right-angled triangles $y^2 + z^2 = b^2$, and $\overline{a+y+z}^2 + \overline{a+y-z}^2 = 4a^2$; therefore $2ay + b^2 = a^2$, and $y = \frac{a^2 - b^2}{2a}$ $\left\{ \begin{array}{l} \text{the leſs radius. Then } z = \\ \sqrt{b^2 - y^2} \text{ becomes known,} \end{array} \right.$ and conſequently the legs $a + y + z$ and $a + y - z$.



Mr Jno Burrow, of Bolton Field, conſtructs the Prob. thus:

With the given radius AD deſcribe the ſemicircle ACB; and with the ſame center and given diſtance of the centers draw the other ſemicircle GEF; draw AEH to touch GEF, and make the angle HAC $=$ HAB; laſtly join BC, and ABC is the triangle required; as is evident.



Ingenious ſolutions were alſo given by Meſſrs Adams, Amicus, Aſpland, Allenſis, Ball, Birch, Boden, Bretherick, Canfield, Cavill, Clayton, Cock, Cowing, Cullyer, Cunliffe, Dalton, Evans, Griffith, Hornby, Howard, Jackſon, King, Mudge, Roharts, Roope, Rowe, Saul, Scholefield, Smith, Stevenſon, Surtees, Taylor, Terry, T Todd, Waugh, White, Williams, Woolſton, Toule, and Young.

IV Queſtion 866 *anſwered by Amicus.*

The lever AEDB and weight W will reſt in any poſition, provided their common center of gravity be ſupported; and becauſe it can then only be ſupported by the prop, when the lower ſide AB of the lever is horizontal; if P be the prop, and PC perp. to AB meet the axis FH of the lever in C, draw WA parallel to CP cutting the axis in I, and CL parallel to AB in L; then I may be conſidered as the place of the weight, c the common center of gravity of the weight and fruſtum, and O the center of gravity of the fruſtum. By the queſt. AE $= b = 3$, ED $= 6$, AP $=$ LC $= 3$, FH $=$ AK $= 30 = a$, BK $= \frac{3}{2}$, and AK : BK :: I : ·05 :: 2 : $n = 1$, or 2BK $= na = 3$, AB $= \frac{1}{2}\sqrt{3609}$, AK : AB :: CL : CI $= 3 \cdot 003747 = e$, IL $= 2$IF $= \frac{1}{20}$CL, FI $= \frac{3}{40} = ·075$, and FC $= 3 \cdot 078747 = g$. Now in order that c may be the common center of gravity of the weight and fruſtum, it is manifeſtly neceſſary that $ew =$ FO $- g \times$ ſolidity or weight of the fruſtum $=$ FO $- g \times \frac{1}{2}n^2a^3 + b^2a + nba^2 = \frac{1}{2}b^2a^2 + \frac{2}{3}na^3b + \frac{1}{4}n^2a^4 - \frac{1}{3}n^2a^3g - b^2ag - nba^2g = \frac{1}{12}b^2a \times 17a - 28g$, or $w = 3174 \cdot 495$ cubic inches of oak $= 91 \cdot 853$ lb. Averdupois.

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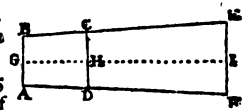
The same by Mr John Dalton, Teacher of the Mathematics, Kendal.

The weights of the parts of the frustum on each side of the prop will be thus, the greater $= 17\cdot367$lb, the less $= 0\cdot862$lb. And from the directions of the writers on fluxions, the distance of the fulcrum from the center of gravity of the greater part is $16\cdot0415$ inches, and from that of the less part $1\cdot4524$ inches; which distances, multiplied by the respective weights, give the momenta of the two parts, the difference of which is the momentum of the required weight, which divided by 3, its distance from the fulcrum, gives the weight $= 92\cdot4461$lb.

The same by Mr John Aspland, of Soham.



GI : GH :: EF — AB : DC — AB $= 3$. Put EF $= a = 6$, DC $= b = 3\cdot3$, HE $= b = 27$; then will $\left\{\frac{3a^2+2ab+b^2}{a^2+ab+b^2}\right\} \times \frac{1}{4}b = 16\cdot041375$ be the distance of the center of gravity of DE from the point H. Again, put AB $= c = 3$, and GH $= l = 3\frac{1}{3}$ then will $\left\{\frac{3c^2+2cb+b^2}{c^2+cb+b}\right\} \times \frac{1}{4}l = 1\cdot4523$ be the distance of the center of gravity of DE from the point H. Now the solidity of the part DE is $600\cdot21$ inc. and its weight $17\cdot367$lb; and the solidity of DB is $29\cdot79$ inc. and its weight $\cdot86197$lb. Put now $d = 16\cdot04137$, $r = 1\cdot4523$, $w = 17\cdot367$, and $w = \cdot8197$, also $x =$ the weight sought; then $rw + lx = dw$, and hence $x = \frac{dw - rw}{l} = 92\cdot4461$lb, the answer.

Ingenious answers were also given by Messrs Adams, Allenfis, Ball, Birch, Boden, Bretherick, Burrow, Canfield, Cullyer, Cunliffe, Emes, Evans, Hornby, Howard, Jackson, King, Lowry, Mudge, Rowe, Saul, Scholefield, Surtees, Taylor, Terry, Todd, Waugh, White, Whitehouse, Williams, Woolston, and Young.

V Question 867 *answered by Mr Matt Terry, Land Surveyor.*

Since the steelyard accurately weighs 60cwt or 6720lb when 243lb is suspended on the 29th division, therefore $6720 : 243 :: 29 : 1\frac{109}{2240} = d$ the length of the short arm of the steelyard; and $d : 1 :: 118 : 112\cdot5245$, instead of 112. Again, $d : 1 :: 243 : 231\cdot7242$lb, instead of 2cwt or 224lb. Hence, in weighing with the small weight, or 118lb, the error on the first division is $\cdot5245$, on the 2d twice as much, on the 3d thrice as much, and so on to the 29th division, where the error is $15\cdot21$lb. And, in weighing with the greater weight, or 243lb, from the 29th to the 59th division, the error on the 30th division is $7\cdot7242$lb, on the 31st twice as much, on the 32d thrice as much, and so on to the last or 59th division, where the error is 30 times $7\cdot7242$, or $231\cdot726$lb, or 2cwt 7lb.

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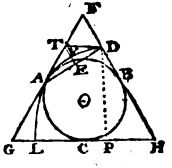
This queſtion was anſwered nearly in the ſame manner by Meſſrs Adams, Allenſis, Amicus, Aſpland, Ball, Birch, Boden, Bretherick, Burrow, Cavill, Cullyer, Dalton, Evans, Griffith, Howard, Jackſon, Mudge, Rowe, Saul, Scholefield, Smith, Steveuſon, Surtees, Taylor, Waugh, White, Whitehouſe, Williams, Woolſton, and Young.

VI Question 868 *anſwered.*

There are two ways of conſidering this problem, viz. either as the ſemiparabola is a right one, or an oblique one. According to the common acceptation, it is taken as, and uſually underſtood to be, a right parabola. But ſome of our correſpondents have taken it as oblique, which makes the concluſion different, though each ſolution be right in its own way. We ſhall inſert an example or two of each.

1. *For the Oblique Parabola, by Amicus.*

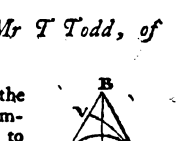


Circumſcribe the given circle with an equilateral triangle FGH, touching it in A, B, C; biſect AF in T, and to FH apply TD = AT = TF; join AD, and draw TE parallel to FH cutting AD in E; biſect TE in V; then with the vertex V, axis VE, and ordinate rightly applied AD, deſcribe a parabola DVAL cutting GH in L, ſo is DALHD the ſemiparabola required.

For ſince TV = VE, TA and TD are tangents to the parabola; and ſince TD = TF = FD, TD is parallel to GH; conſeq. the ordinate LK is parallel to the tangent TD, and the abſciſſa DH to the axis VE; wherefore HDAL is a ſemiparabola; and becauſe the tangent GF is biſected in A, it is manifeſtly that required.

By ſim. triangles, as BH : DH :: 2 : 3 :: BO : AD = $\frac{3}{2}$BO = $\frac{1}{2}$BH$\sqrt{3}$, or BH = BF = BO$\sqrt{3}$ = AB; and DB : DH :: AB^2 : LH^2, or LH = 3BO; and DP (perp. to GH) = $\frac{1}{4}$FC = $\frac{9}{4}$BO; and the area of the ſemiparabola = $\frac{9}{2}BO^2$.

2. *For the Oblique Parabola, by Mr T Todd, of Darlington.*



It is proved in art. 29 Simpſon's Flux. that the equilateral triangle GBA is the leaſt that can circumſcribe the given circle DEP, where BA, perp. to the radius OE = r, is a tangent to both curves in the point E; PE parallel to GA; and BD perp. to GA. Then OB = $2r$, and GB = $2r\sqrt{3}$. Alſo ſince BE = EA, and, by the parabola PV = VB = $\frac{1}{4}$GB, it appears by Simpſon's Geom. p. 201, that the required ſemiparabola GVEF is now given, being the greateſt that can be inſcribed in the ſaid triangle, and the leaſt that can circumſcribe the given circle;

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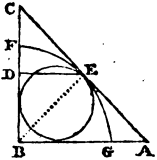
hence then VF : VG :: 1 : 3 :: $PE^2 : GF^2 = 9r^2$, or $GF = 3r = BD$, and the area of the semiparabola GVEF is $\frac{1}{3}GV \times GF \times \text{fine } \angle G = \frac{\sqrt{3}}{2} \times \frac{2}{3} \times \frac{3\sqrt{3}}{2} r \times 3r = \frac{9}{2} r^2$ required.

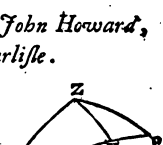
3. *For the Right Parabola, by Mr Isaac Saul, Holland near Wigan.*



By theor. 8 Simp. Max. and Min. the least right-angled triangle circumscribing the circle, is when the legs BC, BA are equal. Also the greatest parallelogram that can be inscribed in any curve is when the sub-tangent CD = DE = $\frac{1}{2}$CB. Theref. circum. the given circle with the right-angled triangle ABC, making AB = BC; bisect BC in D, and DC in F; then to the vertex F, axis FD, and ordinate DE, describe the parabola FEG required. Then, putting a for the radius of the circle, BE = $a + a\sqrt{2}$, and BC = $a\sqrt{6+4\sqrt{2}} = 2a + a\sqrt{21}$, and BF = $\frac{3}{4}$BC, and DE = 2DF = $\frac{1}{2}$BC; hence ED : FB :: $DE^2 : BG^2$, or 1 : 3 :: $\frac{1}{4}BC^2 : BG^2 = \frac{1}{4}BC^2$, and BG = $\frac{1}{2}$BC$\sqrt{3}$. Conseq. the area of the semiparabola, or $\frac{2}{3}$BF × BG, is $\frac{2}{3} \times \frac{1}{4}BC \times \frac{1}{2}BC\sqrt{3} = \frac{1}{4}BC^2\sqrt{3} = a^2 \times \frac{3}{2}\sqrt{3+\sqrt{6}} = 5{\cdot}047a^2$, as required.

Solutions were also given by Messrs Bretherick, Cunliffe, Dalton, Evans, Hornby, Howard, Jackson, Mudge, Rowe, Sanderson, Taylor, Waugh, White, Williams, and Young.

VII Question 869 *answered by Mr John Howard, Teacher of the Mathematics, Carlisle.*



Let Z be the zenith, P the pole, and O the sun's place; then we have given ZP = 40° the co-latitude, also ZO being the co-altitude, and PO the co-declin. the altitude is 90 — ZO, and the declin. PO — 90, the sum of which is PO — ZO = 34° 40′ = PD, by taking OD = OZ. Then in the triangle ZDP, are given PZ, PD, and ∠P = 30°, to find the side DZ and ∠PDZ, the supplement of which is the ∠ODZ = ∠OZD. Then in the isosceles triangle OZD are given the base ZD, and the angles at the base, to find OZ or OD = 67° 31′ the co-altitude; conseq. PO = PD + DO = 102° 11′, and then PO — 90 = 12° 11′ the declination south, answering to October 25th.

The same by Mr Rd Waugh, Bushblades, Durham.

Let a and b = fine and cosine of 50°, c and d the fine and cosine of 34° 40′, m = cosine of 30° the ∠P, and x and y the fine and cosine of the declination. Then $cy - dx$ = cos. ZO; and, by a well-known

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theorem in spherics, $bmy \left\{ \frac{x}{y} = \frac{c-bm}{d-a} \right\} =$ tang. of 12° 8′ the declination, $-ax = cy - dx$; hence answering to the 25th of October. Also the altitude $= 22° 32'$.

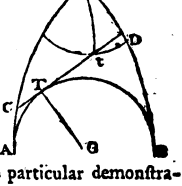
Solutions were also given by Messrs Adams, Amicus, Aspland, Clement, Cock, Cullyer, Dalton, Evans, Hornby, Jackson, Mudge, Rowe, Taylor, White, Williams, and Young.

VIII Question 870 *answered by the Rev L Evans, of Hungerford.*

The times in which pendulums make an equal number of vibrations being as the roots of their lengths, we have $\sqrt{39\frac{1}{2}} : \sqrt{12} :: 20 : 11{\cdot}96$ the time in which a pendulum of 12 inches makes 20 vibrations. Now let $x =$ depth of the well, $a = 16\frac{1}{12}$ feet the space through which a heavy body falls in the first second of time, $b = 1142$ feet the space through which sound passes in the same time, $c = 11''{\cdot}06$ the time given from the first descent of the stone to the hearing of the sound. Then by the law of falling bodies $a : x :: 1^2 : \left\{ \frac{x}{a} \right\}$, therefore $\sqrt{\frac{x}{a}} \left\} =$ the time of the stone's descent; and $b : x :: 1'' : \right.$ $\frac{x}{b} \left\{ \right.$ = time of the sound's ascent; wherefore $\left. \frac{x}{b} + \sqrt{\frac{x}{a}} = c \right\}$; and hence $x =$ $\frac{b^2 + 2abc - b\sqrt{b^2 + 4abc}}{2a} = 1521{\cdot}341$ feet, the depth.

It was also ingeniously answered by Messrs Adams, Allenfis, Amicus, Aspland, Ball, Mrs Bausor, Birch, Boden, Bretherick, Burman, Burrow, WC, Canfield, Cavill. Clement, Cock, Cooper, Cowing, Cullyer, Dalton, Dening, Dixon, Hornby, Howard, Jackson, King, Lowry, Mason, Mudge, Roope, Rowe, Saul, Scholefield, Smith, Stevenson, Surtees, Taylor, Terry, Todd, Waugh, White, Whitehouse, Williams, Wood, Youle, and Young.

IX Question 871 *answered by Amicus.*



If three tangents be drawn to the same given circle, their intersections will form a triangle, and if the intersection farthest from the centre be called the vertical angle, the tangent between it and the point of contact will be equal to half the perimeter of the triangle, if the triangle *does not* circumscribe the circle; and to half the diff. between the sum of the sides and base if it *does*. Which property holds equally in spherical triangles as in plane ones, and is too evident to need a particular demonstration here. This premised,

Let the great circles PA, PB, forming the given vertical angle at P, be drawn, so that AP = BP = half the given perimeter, and the less circle ATB touching them in A and B; and round the pole P at a given distance therefrom = the given perp. of the triangle, draw the representation of another lesser circle; then the representation of a great

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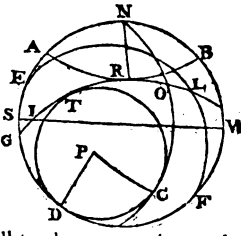
circle c d, being drawn to touch those of the two lesser ones, will, from what is premised, form the representation c p d of the triangle required. Now the distances of the poles of the great circle c t t d from each of the points of contact t and t must = 90° or a quadrant, the distance then from p = a *quadr.* — p t, and from o the pole of the other lesser circle = a *quadr.* + t o; whence, by common spherical geometry, the representation of this pole, and consequently of the great circle c t t d, are readily drawn. And that whether the projection be stereographic or orthographic.

The same by Mr Isaac Dalby.

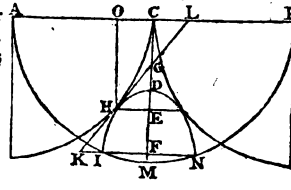


Lemma. If two great circles touch a lesser circle, the segments of the great circles between the points of contact and points of intersection on the same side of the lesser circle are equal. This is too evident to need a demonstration.

Projection. Make the ∠ d n c = the given vertical angle; take n c, n d each = ½ the perim. describe the arcs c p, d p perp. to n c, n d; about p as a pole describe a lesser circle at the dist. of p d or p c, which, it is evident, will touch n d, n c in d and c; also about n as a pole describe a lesser circle a r b at a distance = the given perp. and describe the great circles s w, e l f parallel to the lesser circles a r b, d t c respectively; then by prob. 21 Emerson's Stereog. Proj. describe a great circle g i o l to cut the great circle s w so that the ∠ l i w = comp. of n b or n a to 90°, and the great circle e l f so that the ∠ g l e = comp. of p d or p c to 90°; and g n o will be the triangle required. For it is well known, that if a great circle be described to touch two lesser ones, it will cut their parallel great circles in angles = the complements of the lesser circles distances from their poles, therefore the great circle g i o l will touch the lesser circles in t and r; hence by the foregoing lemma, the arc t g = g d, and t o = o c, therefore g t + t o + g n + n o = n d + n c = the perim. and describing the arc n r to the point of contact r, it will be perp. to the base g o, and = the given perp. by construction.

Mr John Howard and Mr Wm White also answered this question.

X Question 872 *answ. by Mr Jas Young, of Pruddoe.*

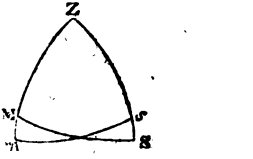


The figure being drawn as per question, &c. and l g h k a tang. to the curves at h; put the radius c a or c m = r, the ordinate h e = c o = y; then is c e = o h = $\sqrt{2ry - y^2}$; a o : a c :: o c : c l = $\frac{ay}{a-y}$; o l : c l :: o h : c g = $\frac{cl \cdot ce}{\frac{1}{4}}$; hence g e = c e − c g = $\frac{co \cdot ce}{ol}$ } = e f when the parabola is a maximum

by Simp. Max. and Min. hence $\left\{\frac{\text{CO}\cdot\text{CE}}{\text{OL}}=\text{CE}\times\frac{2\text{CO}+\text{CL}}{\text{CO}+\text{CL}}=\right.$ $\text{GF}=\text{CE}+\text{EF}=\text{CE}+$ $\frac{3ry-2y^2}{\sqrt{2ry-y^2}}$; and $\text{FI}^2=\text{CM}^2-\text{CF}^2=r^2-\frac{3ry-2y^2}{\sqrt{2ry-y^2}}$. But, by the nature of the parabola, $\text{DE}=\text{DG}=\frac{1}{2}\text{EF}=\frac{1}{2}\text{DF}$ from above, therefore $1:3::\text{EH}^2:\text{FI}^2=3y^2$. Conteq. $3y^2=r^2-\left\{\frac{3ry-2y^2}{\sqrt{2ry-y^2}}\right.$; which equation reduced gives $y^3-6ry^2+10r^2y-2r^3=0$; the root of which is $y=\cdot230708r=\text{HE}$. Hence $\text{IN}=2y\sqrt{3}=\cdot79921r$ the base of the parabola, and its abscis $\text{DF}=\frac{3}{2}\text{GE}=\frac{3}{2}\times\left\{\frac{ry-y^2}{\sqrt{2ry-y^2}}\right.$ is $=\cdot416693r$.

Solutions were also given by Messrs Amicus, Bretherick, Cock, Dalton, Gooch, Hornby, Howard, Mudge, Rowe, Todd, White, and Williams.

XI Question 873 *answ. by Mr Geo Sanderson, of London.*



Let M and S represent the true places of the moon and star or sun, and m and s the apparent places of the same; also Z the zenith of the place. Put $A=$ sine of the half sum, and $R=$ sine the half remainder, in rule 1 last Diary; $x=$ sine of half the true distance MS; $d=$ sine of half the diff. of the true zenith distances ZM, ZS; and $v=$ vers. $\angle$ Z.

Then $v=\frac{A\times a}{\sin zm\times\sin zs}=\frac{\sin x+d\times\sin x-d}{\sin\text{ZM}\times\sin zs}$ $\left\{\right.$ by Sim. Trig. prop 27 cor. 1.

Therefore $\frac{A\times a\times\sin\text{ZM}\times\sin zs}{\sin zm\times\sin zs}=x+d\times x-d=x^2-d^2$.

Put $N=$ half sum log. sines of the factors in the numerator added to the arith. comp. log. sines of the factors in the denominator, from which subtract the log. of d; then $N-d=$ log. $\left\{\sqrt{\frac{x^2}{d^2}-1}\right\}=$ log. tang. of an arc whose secant is $\left\{\frac{x}{d}\right\}$ to rad. 1, the log. sine of which is the log. of $\left\{\sqrt{\frac{x^2-d^2}{x^2}}\right\}$, which put $=l$; then $N-l=$ log. $\left\{\frac{\sqrt{x^2-d^2}}{\sqrt{x^2-d^2}}\right.$ $=$ log. of x, or log. sine of half the true distance, as was to be investigated.

Ingenious demonstrations were also given by Messrs Amicus, Dalton, and White.

XII Question 874 *answered by Mr Abel Whitehouse, Wolverhampton.*

Take the fluxion of the given equation, making $\dot{y}$ constant, and by reduction it is $2a\dot{x}=y\dot{y}$; the fluents of which give $4ax=y^2$; an equation to the parabola, the parameter being $4a$.

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Much in the same manner is the solution given by Messrs Amicus, Aspland, Cunliffe, Dalton, Gould, Howard, Mudge, Rowe, Surtees, Terril, Todd, and White.

XIII Question 875 *answered by Mr John Dalton, Kendal.*

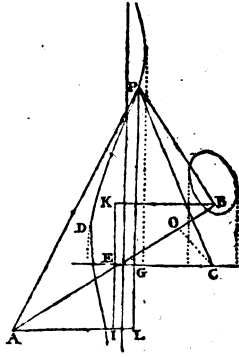
If a falling body move with a uniform velocity, it must necessarily meet with a resistance, in the medium it is moving in, equal to its weight. Now it has been proved (Emerson's Mechan. prop 108 cor. 3) that the resistance to a cylinder, moving in a fluid in the direction of its axis, is equal to the weight of a cylinder of that fluid, of the same base, and its length equal to the height a body falls in vacuo to acquire its velocity. Put now $g = 32\frac{1}{6}$ feet, $v = 10$ the velocity, then $g^2 : \left\{\frac{v^2}{2g}\right\}$ the altitude fallen to acquire the given velocity v, which $v^2 :: \frac{1}{2}g :$ altitude call a; put also $p = .7854$, $b = .075$lb the weight of a cubic foot of air, $m = 200$lb the man's weight, also $x =$ the diameter of the parachute. Then $50^2 : x^2 :: 150 : \frac{3}{50}x^2$ the weight of the same, wh ch added to 200 or m, must be equal to the resistance, namely $abpx^2$, that is $\frac{3}{50}x^2 + m = abpx^2$; and hence $x =$

$$\sqrt{\frac{m}{abp - \frac{3}{50}}} = \sqrt{\frac{m}{\frac{bpv^2}{2g} - \frac{3}{50}}} = \sqrt{\frac{10000}{\frac{375p}{2g} - 3}} = 100\sqrt{\frac{2g}{375p - 6g}}$$

$= 80\frac{5}{8}$ feet nearly, the diameter sought.

Answers to this question were also given by Messrs Amicus, Aspland, Howard, Mudge, and Rowe.

XIV Question 876 *answered by Mr John Farey, London.*



Let ABC be the three given points; join AB, which bisect in E, and draw EC, parallel to which draw KB, AL; also through E draw KI perp. to EC. Let P be a point in the curve, and join AP, BP, CP; also draw PL perp. to AL meeting EC in G.

Put $EC = m$, $KB = AI = n$, $KE = EI = GL = r$, the abscissa $EG = z$, and ordinate $PG = v$. Then $\overline{n+z}^2 + \overline{v+r}^2 = AP^2$, $\overline{z-z}^2 + \overline{v-r}^2 = BP^2$, and $\overline{m-z}^2 + v^2 = CP^2$. Hence by the question $AP \times BP = CP^2$, or

$$\sqrt{\overline{n+z}^2 + \overline{v+r}^2} \times \sqrt{\overline{n-z}^2 + \overline{v-r}^2} = \overline{m-z}^2 + v^2,$$

To reduce this equation to the Newtonian form, make $z = x + \left\{\frac{m^2 + r^2 - n^2}{2m}\right.$, and $v = y + \frac{rn}{m}$;

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then, after proper reduction, $xy^2 + \left\{ \frac{rn^3 - r^3n - m^2rn}{m^2} \right\} \times y = -x^3 + \frac{2n^2 - 2r^2}{m} \times x^2 + \frac{2m^2n^2 - 2m^2r^2 - m^4 - 5r^4 - 5n^4 + 14r^2n^2}{4m^2} \times x + \frac{m^4n^2 - m^4r^2 - 2m^2n^4 - 2m^2r^4 + 4m^2n^2r^2 - 7n^4r^2 + 7n^2r^4 + n^6 - r^6}{4m^3}$;

which equation reduced gives $y = \left\{ \frac{m^2nr + n^2r^2 - n^3r \pm \sqrt{c}}{2m^2x} \right\}$, where c is the biquadratic equation under the vinculum. When $c = 0$, the four roots or values of x are $\frac{-r^2}{m}$, $\frac{n^2 - r^2 \pm m\sqrt{2n^2 - m^2 - 2r^2}}{2m}$, and $\frac{n^2}{m}$. From which it is evident that if $\frac{1}{2}m^2 + r^2$ be less than n^2, the curve will be Sir I. Newton's 33d species, as in the figure; if $\frac{1}{2}m^2 + r^2 = n^2$, it will be the 34th species; and if $\frac{1}{2}m^2 + r^2$ be greater than n^2, it will be the 37th species. Also if $r = n$, it will be the 38th species; if $n^2 = m^2 + r^2$, it will be the 40th species; and lastly if $n = 0$, it will be the 45th species.

Corol. When $r = 0$, (or the three points are in the same right line, as in queſt. 696), and if m^2 be leſs than $2n^2$, the curve will be the 30th species; if $m^2 = 2n^2$, it will be the 41ſt species; if $m = n$, it will be a right line with a conjugate point; if m^2 be greater than $2n^2$, it will be the 45th species; and laſtly if $m = 0$, it becomes the conic equilateral hyperbola.

Mr George Sanderſon, after giving the ſolution nearly as above, makes the following obſervations:

If D be the centre of a circle paſſing through the given points, and C O perp. to A B (C being always conſidered as the point from which the mean proportional is drawn); then if C O be leſs than a third proportional to 2 A D and E B, the curve will be Newton's 33d ſpecies; if C O be equal to the 3d proportional, it will be the 34th ſpecies; and if C O be greater than the ſame, it will be the 37th ſpecies. If $CO = EO$, it will be the 38th ſpecies; and if $EO = 0$, or $AC = CB$, the 45th ſpecies; the aſymptote being parallel to A B, and its diſtance from E equal to A D.

If $CO = 0$, or the three points in the ſame right line (A B), the aſymptote is perp. to A B; and if EC^2 be greater than $2EB^2$, the locus of the point P is ſtill the 45th ſpecies; if $EC^2 = 2EB^2$, the 41ſt ſpecies; and if it be leſs, the 39th. If $EC = EB$, the aſypmtote paſſes through E, and is the locus of the point P, and B is a conjugate point. Laſtly, if C fall in the point E, or $AC = CB$, it becomes a conic equilateral hyperbola whoſe foci are A and B.

This queſtion was alſo anſwered by Meſſrs Amicus, Cock, Howard, and Plus Minus.

XV. Or Prize Question *anſ. by Mr Geo Sanderſon, London.*

Lemma. If $-m$, $-n$, $-r$ be the three roots or values of x in the equation $ax^3 + bx^2 + cx + d = 0$; then 1ſt, if $r = m + n \pm 2\sqrt{mn}$,

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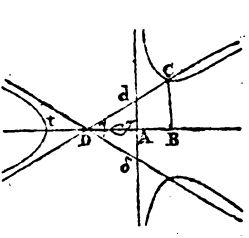
then is $b^2 = 4ac$; 2d, if r lie without $m+n+2\sqrt{mn}$ and $m+n-2\sqrt{mn}$, that is greater than the former or less than the latter, then b^2 is greater than $4ac$; 3d, if r lie between $m+n+2\sqrt{mn}$ and $m+n-2\sqrt{mn}$, then b^2 is less than $4ac$. 4th, In the first case, where $r = m+n\pm 2\sqrt{mn}$, if $m = 4n$, the two least roots, n and r, are equal. 5th, If the two least roots be equal, and the third greater than 4 times the least, (or equal root), then b^2 is greater than $4ac$. Lastly, in either the first or second cases, namely when r does not fall between $m+n\pm 2\sqrt{mn}$, then half the sum of the roots is less than the greatest of the three. All the cases of this lemma will be evident to every one who considers, that in the equation $x^3+px^2+qx+r=0$, p is equal to the sum of the roots, their signs being changed, q the sum of the products of every two, &c, &c.



SOLUTION. Fig. 21 to Sir I Newton's 15th species, consists of two ambigenous hyperbolas at d and δ, and one inscribed at D, as in the annexed fig. but without oval or conjugate point. Here it appears that Sir Isaac considered the two least roots (AT, At) as $\left\{\frac{4ad}{b^2-4ac}\right\} = AB =$ impossible when $\left\{\frac{4ad}{b^2-4ac}\right\} x$ (the corresponding abscissa to the ordinate BC at the point C where the asymptote cuts the curve) is affirmative, or when b^2 is greater than $4ac$. But whoever considers the lemma, will find that examples are numerous in which the equation $ax^3+bx^2+cx+d=0$ has three real and unequal negative roots, (or three real negative roots with the two least equal), and b^2 greater $\left\{\frac{4ad}{b^2-4ac}\right\}$ a positive quantity, also AD less than the than $4ac$, or $\left\{\frac{4ad}{b^2-4ac}\right\}$ greatest of the three roots; and consequently the curve or locus of $y = \pm\left\{\sqrt{\frac{ax^3+bx^2+cx+d}{x}}\right\}$ consists of an inscribed the equation $y = \pm\left\{\sqrt{\frac{ax^3+bx^2+cx+d}{x}}\right\}$ hyperbola at D, and two ambigenous ones at d, δ, with an oval in the triangle Ddδ, or the same with a conjugate point. Here the two greater roots cannot become equal, as in the 11th species. Whence it is manifest that these two species shou'd follow Newton's 14th, so as to make the 15th and 16th, and not the 11th and 15th as Mr Stirling has placed them at pages 99 and 100.

By the first case of the lemma examples may be found in which the eq. $ax^3+bx^2+cx+d=0$ has three real unequal roots (or three real roots with the two least ones equal), and $b^2 = 4ac$, and AD less than the greatest root At. $\left\{\frac{nad}{b^2-4ac}\right\}$ will be infinite; or the asymp-Consequently $AB = x = \left\{\frac{nad}{b^2-4ac}\right\}$ tote cut the curve at an infinite distance; and the figure consists of three inscribed hyperbolas with three diameters, and an oval in the triangle Ddδ, or the same with a conjugate point. If the two least roots be impossible, the curve becomes Newton's 22d species; and therefore these two should make the 24th and 25th species, as Stirling has placed them at page 102.

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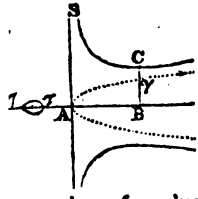

As to Mr Stone's diſcoveries; I find that Sir I Newton's 59th figure to his 55th ſpecies is the locus of the equation $xy^2 = bx^2 - cx + d$; where the two roots or values of x, when $y = 0$, or $bx^2 - cx + d = 0$, are both poſitive. But as no notice is there taken of the locus of the equation $xy^2 = bx^2 + cx + d$, let us deſcribe it here; taking for an example the numeral equation $xy^2 = 4x^2 + 56x + 160$, or $y = \pm\sqrt{\frac{4x^2+56x+160}{x}}$, $\left\{\begin{array}{l}\text{where the two roots or values of } x \text{ when}\\ y = 0, \text{ or } 4x^2+56x+160 = 0, \text{ are } -4\end{array}\right.$ and -10.

Draw two indefinite right lines AB and AS cutting each other at right angles in A, (fig. 2). Let A be the beginning of the abſciſſa AB, and AS the firſt ordinate; then if AB be repreſented by $+x$, and BC its correſponding ordinate by y; on AB, but on the contrary ſide of A, take $A\tau = -4$, and $A\gamma = -10$. If $x = 0$, then $\pm$ BC is infinite, and the curve runs on infinitely towards S; therefore AS is an aſymptote to two hyperbolic legs equally diſtant from AB. If $+x$ be infinite, then BC or $y = \pm\left\{\sqrt{\frac{4x^2+56x+160}{x}}\right\}$ becomes $y = 2\sqrt{x}$, or $y^2 = 4x$, an equation to the conic parabola, whoſe vertex is A, and parameter 4: whence the curve has two parabolic legs joined to two hyperbolic ones, meeting the parabola at an infinite diſtance towards B. If $-x$ be taken $= -5$, then $y = \pm 2$: if $-x$ be taken $= -4$ or -10, then $y = 0$, and the curve paſſes through the points τ and γ: if $-x$ be taken leſs than -4, or greater than -10, then $y = \pm\left\{\sqrt{\frac{4x^2-56x+160}{-x}}\right\}$ it is impoſſible, becauſe the quantity under the vinculum is negative, and no part of the curve can fall between AS and τ, or beyond γ; therefore the part of the locus lying on that ſide of AS is an oval, and the curve conſiſts of two hyperbolo-parabolic figures on one ſide of the aſymptote AS, with an oval on the contrary ſide.

If the two roots be equal, the oval becomes a conjugate point; which is Stone's ſecond ſpecies. If the two roots be impoſſible, the curve becomes Newton's 57th figure to his 53d ſpecies; and therefore Mr Stone's two ſhould be the 57th and 58th ſpecies in the enumeration, the catalogue being deficient without them; that is, they ſhould be the 53d and 54th in Newton's, and the 57th and 58th ſpecies in Stirling's enumeration.

The ſame anſwered by Amicus.

As, in fig. 2d of Sir Iſaac Newton's 1ſt ſpecies, where $AD = -\frac{b}{2a}$ $\left\{\begin{array}{l}\text{is greater than the greateſt root of the equation for the limits,}\\ \text{when the conic hyperb. that biſects the ordinates of the curve, coin-}\end{array}\right.$ cides with its aſymptotes, and the term ey of conſeq. is wanting, τ coincides with π, γ with π, and t with p, and that fig. 2d becomes the ſame with fig. 17th, or the 10th ſpecies, and when the oval vaniſhes, or the two leſs limits are equal, it becomes fig. 20 and ſpecies 13th: *So*, in

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fig. 1ſt of the 1ſt ſpecies, where AD is leſs than the greateſt root AP, when the conic hyperbola coincides with its aſymptotes, it is evident without farther illuſtration, that the hyperbola whoſe vertex is t must be wholly within the aſymptotes Dδ, Dd, whilſt the other two cut them (as in fig. 21ſt) and the oval ſtill remains within the triangle Ddδ (as in the 10th ſpecies) biſected by the diameter AD; and this is Mr Stirling's 11th ſpecies: and when, the two leſs limits being equal, the oval vaniſhes into a conjugate point, it is his 15th, and the ſame in appearance with Sir Iſaac's fig. 21ſt, 15th ſpecies. And when, in the limiting equation $ax^3 + bx^2 + cx + d = 0$, $4ac = b^2$, or the curve has three diameters, it is manifeſt that the only difference this can make, will be, that the hyperbolas c and τ will be wholly within the angles at d and δ, as t is within D; the oval muſt remain ſo long as the two leſs roots of this equation are real and unequal, which is Mr Stirling's 24th ſpecies, when they are equal the oval becomes a conjugate point, and this is his 25th ſpecies, and the appearance as in Sir Iſaac's fig. 28th, ſpecies 22d.

As to the curves expreſſed by the equation $xy^2 = bx^2 + cx + d$, when it takes the form $xy^2 = c \times x^2 + \overline{b+d}.\ x + bd$; the firſt diſcovery of them is not due to Mr Stone, for there is not one word about them in the firſt edition of his Dictionary, but to M. Nic. Bernoulli, who died in 1726, the year in which that edition was publiſhed. They conſiſt of two hyperbolo-parabolic curves like thoſe in Sir Iſaac's 57th fig. with an oval on the contrary ſide of the aſymptote, if b and d be unequal; but with a conjugate point only, if they be equal. For, in the equation $xy^2 = c \times \overline{x+b} \times \overline{x+d}$, y is evidently equal 0, both when $x = -b$, and when $x = -d$.

This queſtion was alſo ingeniouſly anſwered by Plus Minus.

NEW QUESTIONS.

I QUESTION 878, *by Mr Geo Beſwick, Coalſhaw Green.*

A Beautiful couple have lately been ty'd,
The groom was right luſty, and lovely the bride;
A ſimple equation will eaſily ſhew
The age of this couple, as noted below.

$2x^3 - x^4 - x^2 + 2x^2y - y^2 = \sqrt{x^5y} - \sqrt{x^3y} = 2xy$, where $x + y$ and y denote their ages in years.

II QUESTION 879, *by Mr Tho Nield, Writing Maſter, Hawarden.*

Meaſuring a ſmall incloſure of a rectangular form, I obſerved that if 2 poles were added to the breadth and 5 to the length, the area would be increaſed by 430; but if 5 were added to the breadth and two to the length, it would be increaſed by 445. It is required from hence to find the length and breadth of the incloſure.

III QUESTION 880, *by Mr Jonath. Hornby, Weſterdale Schoo..*

Obſerved in the ſpring quarter, in latitude 22 deg. north, when the un was due eaſt, the difference between his altitude and hour from 6, in degrees, a maximum. Query the time of obſervation.

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IV Question 881, *by Mr Timothy Simpſon, Papplewick.*

A certain gameſter is willing to take the odds to a guinea, that he, with 9 halfpence, brings up 3 heads preciſely, 4 times in 5 throws: what ought the odds to be?

V Question 882, *by Mr Matthew Terry, Land-Surveyor.*

What muſt be the length of a pendulum vibrating ſeconds at the the diſtance of 4 radii from the earth's center?

VI Question 883, *by Mr Tho Truſwell, of Nuneaton.*

If a given cone, whoſe altitude is 10, and baſe 8, be cut by two planes, the one of which is parallel to the ſide, and the other to the baſe; required the point in the ſide where the two planes meet, when the area of their ſections are equal to each other.

VII Question 884, *by Mr John Dalton, of Kendal.*

In the ſemicircle ACB, whoſe diameter is AB, and OC perpendicular to it from the centre, from B there is drawn a chord BF to cut OC in E, and on the ſame chord there is taken BD equal to the radius of the ſemicircle; it is required to determine the rectangle DE. EF, a maximum.

VIII Question 885, *by Amicus.*

A block of marble, in the form of the fruſtum of a hexagonal pyramid, the ſide of the leſs end being 6, and of the greater 9 inches, has ſix points on the external ſurface, one foot from the leſs end, upon any one of which it will reſt in equilibrio, on the point of a pole fixed perpendicular to the horizon. The length of the block is required.

IX Question 886, *by Mr Thomas Todd, of Darlington, late of Weſt Smithfield, London.*

If the debts a, b, c, d, &c. in pounds, payable at the end of n, n′, n″, n‴, &c. t years, &c. Then I ſay the equated time from the firſt term, by compound intereſt, will be equal to the difference of the logarithm of the ſum of the debts, and logarithm of the ſum of the preſent worths divided by the logarithm of one pound and its intereſt for one year; whether it be computed by the old method, by Kerſey's, or by Malcolm's; all giving the ſame anſwer. Query the inveſtigation by each method.

X Question 887, *by Mr John Farey, London.*

Let GB be a defective hyperbola of Sir Iſaac Newton's 44th ſpecies, A its conjugate point, B the vertex, and CH its aſymptote; draw BI a tangent to the vertex parallel to the aſymptote, on AB deſcribe a ſemicircle, and draw any line AF, cutting the circle in D, the curve in E, and the tangent BI in F. Then I ſay AC. CB :: DE. EF. Required a demonſtration.

XI Question 888, *by Mr John Cullyer, Aſſiſtant at Mr M'Kain's School, Bungay, Suffolk.*

Being in a thunder ſtorm, and having a cylindrical walking ſtick, 5 feet long, I held one end of it in my hand, and cauſed it to turn round in a conical motion, in which the other end deſcribed circles, parallel to the horizon, 6 feet in diameter; and the ſtick made 7 revolutions from the inſtant of my ſeeing the lightning till I heard the thunder. From which I deſire to know the diſtance of the thunder-cloud from me.

XII Question 889, *by the Rev Mr John Hellins.*

If there be four numbers A, B, C, D, in arithmetical progreſſion, whoſe common difference is 1, that is, $A - 1 = B$, $B - 1 = C$, and $C - 1 = D$; and if $\frac{a+2}{2a+1} = p$, and the modulus of Briggs's logarithms $= M$; and if a be not leſs than 100, $\frac{M}{pa^3 - \frac{1}{2}}$ expreſs the third difference of the logarithms of thoſe numbers, true to 18 places of figures. Query the demonſtration.

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XIII Question 890, *by Lieut. Wm Mudge, of the Royal Artillery.*

If a ſtring with the weights W, w, one at each end, be hung on a pulley, and the greater weight W touch the pulley, ſo that the leſs may have the whole length of the thread to vibrate by; and if, at the inſtant when it has completed one vibration, and is about to deſcribe another, the weight W be ſuffered to deſcend; query the time of vibration, and the nature of the curve.

XIV Question 891, *by Major Edw Williams, of the Royal Artillery.*

It is required to aſſign the time of exhauſting the ditches of a fortreſs of water, to within one inch of the bottom, by means of a rectangular cut or notch in the ſide from top to bottom, of 2 feet wide; the depth of the ditch or water being 9 feet, the breadth at top 30 feet, at bottom 32 feet, and the whole length of the ditches one mile.

XV *Or* Prize Question 892, *by Mr Geo Sanderſon, London:*

(Whoever anſwers it before Candlemas Day has a chance for 10, *and another for* 8 *Diaries.)*

In conſidering the prize queſtion for laſt year, I find that fig. 20 of Newton's catalogue conſiſts of two inſcribed hyperbolas at d and ϑ, and one containing its aſymptotes within its own ſpace at D; and that fig. 21 conſiſts of two ambigenous hyperbolas at d and ϑ, and one inſcribed at D, without oval or conjugate point. But between theſe two there are five more curves, eſſentially different from either; two of which have been deſcribed by Mr Stirling at pages 99 and 100. It is therefore required to determine the other three, with an example of a numeral equation for each.

Query *by Terricola.*

At what diſtance from the ſun will a given burning glaſs make no alteration in the denſity of the ſolar rays?

*** The prizes for the ſeveral ſolutions have been determined by lot as follows Firſt, for the Prize Queſtion, to Amicus 10. and Mr Geo Sanderſon 8 Diaries.---2d, for the Prize Enigma, to Mr J Townſend and Mr John Cullyer each 8 Diaries and Supplements.---3d, for the general Anſwers to the Enigmas, to Miſs Betty Smales and Mr Henry Lee each 8 Diaries and Supplements.---4th, for the Rebuſes, &c, to Mr M Fleck and Mr John Ruſher each 6 Diaries and Supplements. All of whom will pleaſe to ſend for them to Mr R Horſfield, Stationers Hall.

But all letters containing any matter for the uſe of the Diary, muſt be directed thus, "The Author of The Ladies Diary, Stationers Hall, London." And they muſt be franked or poſt paid, or they will not be received. Several were rejected this year by the poſtage not being paid.

‡ Erratum in the laſt Diary. In the fig. page 38, the oblique circle paſſing through A and R, ſhould alſo paſs through the point G.

Several Letters came too late to hand; viz. thoſe of Meſſ. Ball, Walton, Wilding, and ſome others.

FINIS.

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VOX STELLARUM:
OR, A LOYAL
ALMANACK
For the Year of HUMAN REDEMPTION,
MDCCLXXXVIII.

BEING THE

BISSEXTILE or LEAP YEAR.

IN WHICH ARE CONTAINED

All THINGS fitting for such a WORK; as,

A TABLE of TERMS and their RETURNS;
The Full, Changes, and Quarters of the MOON;
The Rising, Southing, and Setting of the SEVEN STARS, and other Fixed Stars of Note; the MOON's Age, and

A TIDE TABLE fitted to the same;
The Rising and Setting of the SUN; the Rising, Southing, and Setting of the MOON; Mutual Aspects, Monthly Observations; and many other Things, useful and profitable.

UNTO WHICH ARE ADDED,

Astrological Observations on the Four Quarters of the Year,
An HIEROGLYPHIC, alluding to these present Times;
A remarkable CHRONOLOGY [illegible] ECLIPSES;
And other MATTERS, both curious and profitable.
With a particular Judgement [illegible] Eclipses,
and many other Things relating to Astrology.

By FRANCIS MOORE, Physician.

LONDON,

Printed for the COMPANY of STATIONERS, 1788.
And Sold by ROBERT HORSFIELD, at their Hall in LUDGATE STREET, [Price Nine Pence, stitched.]

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A plain and easy TABLE, shewing the Time of HIGH WATER.

NOTE, That the Moon's Age being taken notice of in the TABLE, you have the Time of HIGH-WATER at all the undermentioned Places.

Queenborough, Portsmouth, Southampton, Kentish-Knoaks, Leith, Beachy, Isle of Wight, Dunkirk, Calais, Craft of Flanders, at the Spits and Dover Pier.

Gravesend, Downs, Blackness, Romney, Thanet, Scilly Half-tide, North-Cape before Gocquit, and between Calais and Dover.

London, Tinmouth, Hartlepool, Amsterdam, Whitby, Dort, Gascoin, West of Ireland, at Groon, at Rotterdam, and in Robin-Hood's Bay.

Newcastle, Humber, Falmouth, Severn-mouth, at the Spurn between Scilly and Lizard, Ramley, Dartmouth, Guernsey, Torbay, St. Malo's.

Plymouth, Antwerp, Hull, St. David's, Holms of Bristol, Lundy, St. Paul's, Salcom without Uhant, at Waterford, and at Lynn Half-tide.

Bristol-Key, Weymouth-Key, Aldborough, Foulness, Lims, the Start before St. Nicholas, Seamouth in the Channel, between Foy and Falmouth.

Yarmouth-Road, Harwich, Calais-Road, Dover, Cowes, Caen, the Frith, South-Foreland, St. Helen's, Coast of Normandy, and Picardy.

Hague, Peter-port, Dublin, between Beachy and the Isle of Wight, Yarmouth, St. Magnus's Sound, Combay, without the Caskets in the Channels.

D's A.	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m
1	16	12	48	2	18	3	48	6	3	6	48	7	33	11	18	9	3
2	17	1	36	3	6	4	36	6	51	7	36	8	21	12	6	9	51
3	18	2	24	3	54	5	24	7	39	8	24	9	9	12	54	10	39
4	19	3	12	4	42	6	12	8	27	9	12	9	57	1	42	11	27
5	20	4	0	5	30	7	0	9	15	10	0	10	45	2	30	12	15
6	21	4	48	6	18	7	48	10	3	10	48	11	33	3	18	1	3
7	22	5	36	7	6	8	36	10	51	11	36	12	21	4	6	1	51
8	23	6	24	7	54	9	24	11	39	12	24	1	9	4	54	2	39
9	24	7	12	8	42	10	12	12	27	1	12	1	57	5	42	3	27
10	25	8	0	9	30	11	0	1	15	2	0	2	45	6	30	4	15
11	26	8	48	10	18	11	48	2	3	2	48	3	33	7	18	5	3
12	27	9	36	11	6	12	36	2	51	3	36	4	21	8	6	5	51
13	28	10	24	11	54	1	24	3	39	4	24	5	9	8	54	6	39
14	29	11	12	12	42	2	12	4	27	5	12	5	57	9	42	7	27
15	30	12	0	1	30	3	0	5	15	6	0	6	45	10	30	8	15

The foregoing Table explained.

NOTE, That the Moon's Age being taken notice of by the Rule in this TABLE, you may obtain the Time of HIGH WATER at all the Places abovenamed. Observe, When the Moon is one or fifteen Days old, it is HIGH WATER at London, Tinmouth, Hartlepool, &c. at 3 o'Clock, and 48 Minutes past. Observe the same of the rest, which is plain to the meanest Capacity. The Day of the Moon's Age you have in the sixth Column on every Left-hand Page of the Calendar.

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KINGS and QUEENS from the Conquest.

KINGS Names.	Began their Reigns.	Reigned Y. M. D.	Since their Reigns.	Buried at
W. Conq.	1066 Oct. 14	20 10 26	671 Sept. 9	Caen, Norm.
W. Rufus	1087 Sept. 9	12 10 24	688 Aug. 2	Winchester
Henry 1	1100 Aug. 2	35 3 29	653 Dec. 1	Reading
Stephen	1135 Dec. 1	18 10 24	634 Oct. 25	Feversham
The Saxon Line restored.				
Henry 2	1154 Oct. 25	34 8 11	599 July 6	Fontevrault
Richard 1	1189 July 6	9 9 0	589 April 6	Fontevrault
K. John	1199 Apr. 6	17 6 13	572 Oct. 19	Worcester
Henry 3	1216 Oct. 19	56 0 28	516 Nov. 16	Westminster
Edward 1	1272 Nov. 16	34 7 21	481 July 7	Westminster
Edward 2	1307 July 7	19 6 18	461 Jan. 25	Gloucester
Edward 3	1327 Jan. 25	50 4 27	411 June 21	Westminster
Richard 2	1377 June 21	22 3 8	389 Sept. 29	Westminster
The Line of Lancaster.				
Henry 4	1399 Sept. 29	13 5 20	375 Mar. 20	Canterbury
Henry 5	1413 Mar. 20	9 5 11	366 Aug. 31	Westminster
Henry 6	1422 Aug. 31	38 6 4	327 Mar. 4	Windsor
The Line of York.				
Edward 4	1461 Mar. 4	22 1 5	305 April 9	Windsor
Edward 5	1483 Apr. 9	0 2 13	305 June 22	Unknown
Richard 3	1483 June 22	2 2 0	303 Aug. 22	Leicester
The Families United.				
Henry 7	1485 Aug. 22	23 8 0	279 Apr. 22	Westminster
Henry 8	1509 Apr. 22	37 9 6	241 Jan. 28	Windsor
Edward 6	1547 Jan. 28	6 5 8	235 July 6	Westminster
Q. Mary	1553 July 6	5 4 11	230 Nov. 17	Westminster
Q. Elizabeth	1558 Nov. 17	44 4 7	185 Mar. 2	Westminster
The Union of the Two Crowns.				
James 1	1603 Mar. 24	22 0 3	163 Mar. 27	Westminster
Charles 1	1625 Mar. 27	23 10 3	139 Jan. 30	Windsor
Charles 2	1649 Jan. 30	36 0 7	103 Feb. 6	Westminster
James 2	1685 Feb. 6	4 0 7	99 Feb. 13	St. Germain
Will. & Mar.	1689 Feb. 13	13 0 23	86 Mar. 8	Westminster
The Union of the Two Kingdoms.				
Q. Anne	1702 Mar. 8	12 4 24	74 Aug. 1	Westminster
George 1	1714 Aug. 1	12 10 10	61 June 11	Hanover
George 2	1727 June 11	33 4 14	28 Oct. 25	Westminster
George 3	1760 Oct. 25	Crowned September 22, 1761.		

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A TABLE of the Equation of Time for regulating Clocks and Watches for 1788. Note, fa. Clock too fast, that is, your Clock, to be set right, muſt be ſo much ſaſter than the Sun Dial. ſlo. Clock too ſlow, that is, your Clock muſt be ſo much ſlower than the Sun Dial.

D.	January	February	March	April	May	June
1	4′ fa. 0″	14′ fa. 1′	12′ fa. 28″	3′ fa. 41″	3′ fl. 14″	2′ fl. 3″
3	4 56	14 15	12 2	3 5	3 27	2 12
5	5 51	14 26	11 35	2 29	3 38	1 51
7	6 44	14 34	11 5	1 55	3 47	1 29
9	7 35	14 38	10 35	1 21	3 53	1 6
11	8 24	14 40	10 2	0 49	3 57	0 42
13	9 10	14 38	9 29	0 17	3 59	0 18
15	9 53	14 32	8 54	slow 13	3 59	fast 8
17	10 34	14 24	8 19	0 42	3 57	0 33
19	11 12	14 13	7 42	1 9	3 52	0 59
21	11 47	14 0	7 6	1 35	3 46	1 24
23	12 18	13 43	6 28	1 59	3 37	1 50
25	12 47	13 25	5 51	2 21	3 25	2 15
27	13 12	13 4	5 3	2 41	3 12	2 40
29	13 34	12 41	4 36	2 58	2 57	3 5

D.	July	August	Septemb.	October	Novemb.	Decemb.
1	3′ fa. 28″	5′ fa. 51″	0′ fl. 28″	10′ fl. 37″	16′ fl. 14″	10′ fl. 16′
3	3 51	5 43	1 7	11 13	16 13	9 28
5	4 12	5 31	1 45	11 48	16 9	8 38
7	4 32	5 18	2 26	12 22	16 2	7 45
9	4 50	5 2	2 7	12 54	15 51	6 51
11	5 6	4 43	3 48	13 24	15 37	5 56
13	5 21	4 22	4 30	13 53	15 20	4 59
15	5 33	3 59	4 12	14 19	14 59	4 1
17	5 44	3 34	5 54	14 43	14 35	3 2
19	5 52	3 7	6 36	15 4	14 7	2 2
21	5 58	2 38	7 18	15 23	13 36	1 2
23	6 2	2 8	8 0	15 39	13 2	0 2
25	6 4	1 36	8 40	15 52	12 25	fast 58
27	6 3	1 2	9 20	16 2	11 45	1 58
29	6 0	0 27	0 59	16 9	11 2	2 57

How to ſet a Clock or Watch by this Table. For example, Jan. the 1ſt, I find, by looking into the Table, that a Clock to be right muſt be 4 Minutes 0 Seconds ſaſter than a Sun Dial; therefore I ſet it ſo much ſaſter accordingly. And ſo of the reſt. Twelve o'Clock is the beſt Time to ſet a Clock or Watch by a Dial.

Note. A Sun Dial ſhews Solar or Apparent Time; but a Clock, &c ſhould be ſet to Equal or Mean Time, as the Table directs, to go true.

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LAW TERMS, &c.

A TABLE of TERMS and Returns for the Year 1788

Hilary Term begins Jan. 23, ends Feb. 12.

Returns, or Essoign Days.		Exc.	Ret.	Ap.	W. D.
In eight Days of St. Hilary -	Jan. 20	21	22	23	Wednesd
In fifteen Days of St. Hilary -	27	28	29	30	Wednesd
On the Mor. of the Purif. of the Bl. V. M.	Feb. 3	4	5	6	Wednesd
In eight Days of the Purif. of the Bl. V. M.	9	10	11	12	Tuesday

Easter Term begins April 9, ends May 5.

In fifteen Days of Easter -	Apr. 6	7	8	9	Wednesd
From Easter Day in three Weeks	13	14	15	16	Wednesd
From Easter Day in one Month	20	21	22	23	Wednesd
From Easter Day in five Weeks	27	28	29	30	Wednesd
On the Mor. of the Ascension of the Lord	May 2	3	4	5	Monday

Trinity Term begins May 23, ends June 11.

On the Morrow of the Holy Trinity	May 19	20	21	23	Friday
In eight Days of the Holy Trinity -	25	26	27	28	Wednesd
In fifteen Days of the Holy Trinity	June 1	2	3	4	Wednesd
From the Day of the H. Tr. in 3 Weeks	8	9	10	11	Wednesd

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls -	Nov. 3	4	5	6	Thursday
On the Morrow of St. Martin -	12	13	14	15	Saturday
In eight Days of St. Martin -	18	19	20	21	Friday
In fifteen Days of St. Martin -	25	26	27	28	Friday

N. B. No Sittings in Westminster-Hall on the Second of February, Ascension-day, and Midsummer-day.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, The first and last Days of every Term are the first and last Days of Appearance.

Common Notes for the Year 1788.

Golden Number - -	3	Lent begins - -	Feb. 6
Epact - - - -	22	Easter-day - -	Mar. 23
Dominical Letters - -	FE	Rogation Sunday -	Apr. 27
Cycle of the Sun - -	5	Ascension-day -	May 1
Sundays after Epiphany -	1	Whit Sunday - -	11
Number of Direction -	3	Sundays after Trinity -	27
Septuagesima Sunday -	Jan. 20	Advent Sunday - -	Nov. 30

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PREFACE.

ME vero primum dulces ante omnia Musæ,
Quarum Sacra Fero ingenti percultes amore,
Accipiant; cœlique vias & Sidera monstrant;
Defectus Solis varios lunæ labores:
Unde tremor terris; qua vi maria alta tumescant
Objicibus ruptis, rursusque in seipsa residant:
Quid tantum oceano properent se tingere soles
Hyberni; vel quæ tardis mora noctibus obstet.
VIRG. Georg. lib. ii.

GIVE me the Way of wandring Stars to know,
The depths of Heav'n above, and Earth below;
Teach me the various Labours of the Moon,
And whence proceed th' Eclipses of the Sun.
Why flowing Tides prevail upon the Main,
And in what dark Recess they shrink again.
What shakes the solid Earth, what Cause delays
The Summer Nights, and shortens Winter Days.
DRYDEN.

AMONG the various Vices of the present Age, perhaps none is more predominant than that of ridiculing every thing we cannot attain to, and disbelieving (or at least pretending so to do) whatever we cannot comprehend. As this in Revelation, and Matters which concern the immortal Soul, and our everlasting Welfare, has been an inlet to an overflow of Scepticism and Infidelity; so in the Sciences it has done but too much Mischief, by creating an idle Perverseness, where the most indefatigable Industry is required; and carrying the Mind by insensible Degrees away from the most laudable Pursuits, until, at last, deep Learning is by the giddy World looked upon as a Mark of Stupidity; and a laughable Tale, or a smart Repartee, shall (with Persons of this Stamp) trip up the Heels of the most logical Argument. And this, I must needs own, I take to be one great Cause why that learned and noble Science of judicial Astrology, although taught and vindicated by Authors of the greatest Note, and the highest Antiquity, is now become the Subject of almost universal Contempt and Ridicule. Yet, whoever will be at the Pains to read ALBUBATER *de Nativitatibus*, ATKINDUS *de Pluviis & Aeris mutatione*, LEO ALLATIUS *Paraphrasis Ptolomei de Syderum Affectionibus*, GUIDUS *de Eclipsibus*,

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Eclipſibus, LIBERTAS FROMUNDUS *de Cometa*, FORTUNIUS LICETUS upon the ſame Subject, HYPOCRATES *de Medicorum Aſtrologia*, and CAMILLI LEONARDE *Speculum Lapidum & Sympathia Metallorum ad Planetas*, with ſeveral other ancient and venerable Writers, which I could mention if my narrow Limits would permit; ſuch a one will find ſo much Reaſon founded on Facts, in Vindication of the various Branches of judicial Aſtrology, as well as on the Texts of ſacred Writ, as will confound the Ignorance of its Enemies, and make even laughing Ridicule look ſour at her ſhameful Defeat.

But the Truth is, that theſe valuable Performances are in general ſcarce, being out of Print: the Bookſeller's Enquiry is not what is ſenſe, but what will ſell: and ſo long as Folly and Faſhion go Hand in Hand, it is no wonder that theſe are no where to be found, except in the Cabinets of the Curious, or perhaps at the Paſtrycooks. And this will ever be the Caſe, ſo long as laughable Nonſenſe ſhall find a ſpeedy Sale, while deep Learning lies a Prey to Bookworms.

Another great Cauſe why this Art is now at ſo low an Ebb, is the Impudence and Ignorance of foolish and falſe Pretenders. There are Quacks in this Science as well as in Phyſic. But true Aſtrology is very modeſt: if a Man boaſts himſelf, believe him not; his very Labours have proved that the Muſes never grazed upon his Common, nor the Stars ſhed one benign Ray. But ſome People vainly wiſh their Memories may remain when their Carcaſes are rotten; and their Works only live to be laughed at. But I need ſay no more upon this Character, as it is ſufficiently expoſed by another, who writes likewiſe a Diary under the ſame Signature. This Gentleman boaſts in particular his exact Judgment of the Weather; and, by his monthly Obſervations of the antecedent Year, any curious Perſon may determine how long it would take to fill a Chamberpot of a given Dimenſion with Rain Water.

Nor is his new Mode of Calculation for the Year to come leſs curious: for, allowing what this learned Gentleman calls a Triduum, i. e. three Days before, or three Days after, any particular Day he ſhall mention for Rain, &c. to fall in, he has, right wiſely, for the Year 1787, picked out 52 Days, which, allowing a Week for a Day, according to his Doctrine of Triduums, juſt compleats the Year. Thus hath he artfully drawn the Heavens into a Sort of an Aſtrological Dilemma, either not to rain at all, or elſe to make the World believe they rain according to his Directions. *Vale, Amice.*

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Swains, the Song, the Dance prepare,
To welcome in the new-born Year,
Though Clouds obscure the Skies;
Bright Sol, the genial God of Day,
To northern Climates wings his Way,
And bids new Joys arise.

M D	W D	Feasts and Festivals	☉ ♈	☽'s Signs	☽'s A	☽ rises and sets	Mut. Asp. and Weather
1	T	Circumcision	11	loins	24	1 m 10	☌ ☊ ☿
2	W		12	secret	25	2 30	Cloudy,
3	T		13	memb.	26	3 39	Winds and
4	F		14	hips	27	4 42	dark Weath.
5	S	Old Christm-d	15	and	28	5 40	begin the
6	S	Epiphany	16	thighs	29	6 32	Twelfth-d.
7	M	*Plow Monday.*	17	knees	30	7 15	☌ ☉ ♂
8	T	*Lucian.*	18	and	N	☽ sets	Year.
9	W		19	hams	2	5 a 23	Afterwards
10	T		20	legs	3	6 30	some light
11	F		21	ancles	4	7 39	Frosts, and
12	S	O. N Year's-d.	22	feet	5	8 47	seasonable;
13	S	1 S. aft. Epiph.	23	toes	6	9 57	*Hil. Ca. T. b.*
14	M	*Oxf. Term beg.*	24	head	7	11 8	☌ ♂ ☿
15	T		25	and	8	morn	△ ♃ ☿
16	W		26	face	9	0 22	and we may
17	T	O. Twelfth d.	27	neck	10	1 39	expect rough
18	F	Q. b. d. kept.	28	throat	11	2 54	*Prif. & ♂ ☿*
19	S		29	arms	12	4 10	Weather,
20	S	Septuagesima	♒	shoulder	13	5 16	*Fabian*
21	M	*Agnes,*	1	breast	14	6 11	with Snow
22	T	*Vincent*	2	stom.	15	6 53	or Sleet.
23	W	*Hilary Term b.*	3	heart	F	☽ rises	Small Rain
24	T		4	back	17	6 a 50	♂ ♄ ☿
25	F	Conv. St. Paul	5	bowels	18	8 13	or Snow.
26	S		6	belly	19	9 34	Wind, and
27	S	Sexagesima	7	reins	20	10 50	P. Aug. Fr. b
28	M		8	loins	21	morn	Variety of
29	T		9	secret	22	0 5	Weather
30	W	K. C. I. mart.	10	members	23	1 16	conclude.
31	T		11		24	2 25	

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The 6 day, at 2 aftern. Mercury
The 10 day, at 8 morn. Venus
The 11 day, at 6 aftern. Saturn
The 20 day, at 2 morn. Jupiter
The 21 day, at 6 aftern. Mars
} is with the Moon.

M D	Sun rifes	Sun fets	Moon Souths
1	8 5	3 55	6m 25
2	8 4	3 56	7 11
3	8 4	3 56	7 58
4	8 3	3 57	8 46
5	8 2	3 58	9 34
F	8 1	3 59	10 23
7	8 0	4 0	11 12
8	8 0	4 0	11 59
9	7 59	4 1	0 a 45
10	7 58	4 2	1 29
11	7 57	4 3	2 12
12	7 56	4 4	2 54
F	7 54	4 6	3 36
14	7 53	4 7	4 19
15	7 52	4 8	5 5
16	7 51	4 9	5 54
17	7 50	4 10	6 47
18	7 48	4 12	7 44
19	7 47	4 13	8 45
F	7 46	4 14	9 48
21	7 44	4 16	10 51
22	7 43	4 17	11 52
23	7 41	4 19	morn.
24	7 40	4 20	0 49
25	7 38	4 22	1 42
26	7 37	4 23	2 33
F	7 35	4 25	3 22
28	7 34	4 26	4 9
29	7 32	4 28	4 57
30	7 31	4 29	5 44
31	7 29	4 31	6 33

Monthly Obfervations

Non eſt meum mentiri.
Te rediiſſe incolumem gaudeo.

I cannot begin the Year better, perhaps, than with a Reflection, how many of my annual Readers, who laſt Year took my Ephemeris for their Guide, are now laid in the ſilent Duſt, and ſleep the Sleep of Death.

NEW Moon 8 day at noon.

Reſt in Peace, gentle Shades: and may the eternal Sunſhine of divine Favour ſmile continually upon you!

I know well that this to ſome People will ſeem rather Pupiliſh, and favouring too much upon the ancient *Ora pro Aobis*. I think otherwiſe. I am ſure it is pious.

FIRST Quart. 16 day at 10 morn.

Certain I am it is ſincere; and the general Cry of, God receive their never dying Souls, from People of all Parties and Denominations upon the hearing of a Death-bell, ſeems to ſpeak it to be not the Tenets of a particular Sect, but the univerſal Voice

FULL Moon 23 day at 2 morn.

of Nature.

You, my good Friends, whom Providence has permitted to remain on this Side the Grave, and to enter upon another Year: may Health and Happineſs ſurround your Habitations! or, if you muſt

LAST Quart. 30 day at 1 morn.

taſte the bitter Cup of Adverſity, may a

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Come, Patience, ever welcome Guest,
Still dwell thou in the human Breast,
Cold Winter to beguile:
Soon shall the frozen Fields be seen,
Bedeck'd in beauteous Robes of Green,
And all Creation smile.

M D	W D	Fasts and Festivals	☉ ♒	☽'s Signs	☽'s A	☽ rises and sets	Mutual Asp. and Weather
1	F		12	hips	25	3 m 27	Frosty.
2	S	Purification.	13	thighs	26	4 21	Candlem d,
3	F	Quinquages.	14	knees	27	5 6	*Blase*
4	M		15	and	28	5 42	
5	T	Shrove Tues.	16	hams	29	6 13	*Agatha*
6	W	Ash Wednesd.	17	legs	30	6 36	Seasonable.
7	T		18	ancles	N	☽ sets	
8	F		20	feet	2	6 a 30	☐ ♃ ♀
9	S		21	nd	3	7 42	Temperate
10	F	Quadrages.	22	toes	4	8 54	
11	M		23	head	5	10 6	♂ ☉ ☿
12	T	*Hilary T. ends*	24	face	6	11 20	for the Sea-
13	W	Ember Week.	25	neck	7	morn	O. Candl. D.
14	T	*Valentine*	26	throat	8	0 36	son, with
15	F		27	arms	9	1 49	some Mists
16	S		28	should.	10	2 57	♂ ♄ ☿
17	F	2 S. in Lent.	29	breast	11	3 57	and hoary
18	M		30	stom.	12	4 44	Frosts.
19	T		♓	heart	13	5 21	♂ ☉ ♄
20	W		2	back	14	5 51	△ ♂ ☿
21	T		3	bowels	F	☽ rises	About this
22	F		4	belly	16	7 a 7	Time a brisk
23	S		5	reins	17	8 23	sharp Air.
24	F	3 S. in Lent.	6	and	18	9 41	P. Ad. Fr. b.
25	M	[St. Matthi.	7	loins	19	10 56	Moisture.
26	T		8	secret	20	morn	☐ ♂ ♀
27	W		9	memb.	21	0 8	△ ☉ ♂
28	T		10	hips	22	1 15	Stormy.
29	F		11	and	23	2 13	

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The 6 day, at 10 night Mercury
The 8 day, at 6 morn Saturn
The 9 day, at 4 aftern. Venus
The 16 day, at 9 morn Jupiter
The 17 day, at 9 night, Mars
} is with the Moon.

M D	Sun rifes	Sun fets	Moon Souths	Monthly Obfervations
1	7 27	4 33	7 m22	Conſcience void of Offence towards God,
2	7 25	4 35	8 11	and towards Man, take off the naufeouſ-
F	7 24	4 36	9 0	neſs of the Draught, knowing of a Truth
4	7 22	4 38	9 48	that he who ruleth the Heavens, and look-
5	7 20	4 40	10 35	eth down with an Eye of Pity upon the
6	7 19	4 41	11 20	Children of Men, careth for you, and
7	7 17	4 43	0 a 4	will in his own Time, and, in a Manner
8	7 15	4 45	0 47	NEW Moon 7 day, at 7 morn.
9	7 13	4 47	1 30	inſcrutible to us, work out all Things for
F	7 11	4 49	2 14	good to them that love the Lord, and
11	7 9	4 51	2 59	fear his holy Name.
12	7 8	4 52	3 46	There are no leſs than four Oppoſitions
13	7 6	4 54	4 37	in the Month of January; in two of which
14	7 4	4 56	5 32	Mars is engaged: and the various Aſpects
15	7 2	4 58	6 29	of this Month beſpeak a buſy Time, and
16	7 0	5 0	7 30	FIRST Quart. 14 day, at 9 night.
F	6 58	5 2	8 31	big with various Preparations.
18	6 56	5 4	9 31	Much Conjecture, with little Certainty,
19	6 54	5 6	10 29	fills the giddy Brain of the Multitude.
20	6 52	5 8	11 24	And many and great Things are in Agita-
21	6 51	5 9	morn.	tation in all foreign Courts as well as our
22	6 49	5 11	0 17	own.
23	6 47	5 13	1 8	I pray God proſper our Counſels at
F	6 45	5 15	1 57	FULL Moon 21 day, at 1 aftern.
25	6 43	5 17	2 47	home. Some Aſpects of good Import mi-
26	6 41	5 19	3 36	tigate the miſchievous influences of the
27	6 39	5 21	4 26	malignant ones; there appears to me to
28	6 37	5 23	5 16	be much fruſtration of Counſels; perhaps
29	6 35	5 25	6 6	before the Hand can execute what the
				Head has deſigned, Death may ſtrike at
				the Heart of ſome great one.
				LAST Quart. 28 day, at 8 night.

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Behold, ev'n now he darts his Ray,
Where Aries in middle Way,
Between the Tropics lies;
He leaves the gloomy South to weep,
And, climbing up the mighty Steep,
Ascends to northern Skies.

M D	W D	Falls and Festivals	☉ ♈	☽'s Signs	☽'s A	☽ rises and sets	Mutual Asp. and Weather
1	S	*David*	12	thighs	24	3 m 2	Sharp Winds
2	F	4 or Midl. S.	13	knees	25	3 42	*Chad*
3	M		14	hams	26	4 15	and cold.
4	T		15	legs	27	4 40	✶ ♃ ☿
5	W		16	and	28	5 2	
6	T		17	ancles	29	5 24	
7	F	*Perpetua*	18	feet	N	☽ sets	□ ☉ ♃
8	S		19	toes	2	6 a 43	Unsettled
9	F	5 S. in Lent	20	head	3	7 57	Weather,
10	M		21	face	4	9 13	and so con-
11	T		22	neck	5	10 29	tinues for
12	W	*Gregory*	23	throat	6	11 44	some Time.
13	T		24	arms	7	morn.	
14	F	*Cam. Fermund.*	25	and	8	0 55	
15	S	*Oxf. & ends.*	26	shoul.	9	1 56	Now expect
16	F	Palm Sund.	27	breast	10	2 44	some drifling
17	M	*St. Patrick*	28	stom.	11	3 23	Rain.
18	T	*Edm. K. W. S.*	29	heart	12	3 56	✶ ♄ ♀
19	W		30	back	13	4 23	Moderate.
20	T	*Maund. Thurs.*	♈	bow.	14	4 45	
21	F	Good Friday	2	belly	F	☽ rises	*Benedict*
22	S		3	reins	16	7 a 22	
23	F	Easter day	4	loins	17	8 39	
24	M	Easter Mond.	5	secret	18	9 55	Variable.
25	T	Easter Tuesd.	6	memb.	19	11 4	Lady day
26	W		7	hips	20	morn.	♂ ☉ ☿
27	T		8	and	21	0 7	Expect the
28	F		8	thighs	22	1 0	Month to
29	S		9	knees	23	1 44	✶ ♂ ♀
30	F	Low Sunday	10	hams	24	2 21	end with
31	M		11	legs	25	2 50	cold Rain.

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The 6 day, at 7 aftern. Saturn
The 9 day, 12 at noon, Mercury
The 10 day, at 7 aftern. Venus
The 14 day, at 5 aftern. Jupiter
The 16 day, at 11 morn. Mars
} is with the Moon.

M D	Sun rises	Sun sets	Moon Souths
1	6 33	5 27	6 m 56
E	6 31	5 29	7 45
3	6 29	5 31	8 32
4	6 27	5 33	9 18
5	6 25	5 35	10 3
6	6 23	5 37	10 47
7	6 21	5 39	11 31
8	6 19	5 41	0 a 15
E	6 17	5 43	1 0
10	6 15	5 45	1 48
11	6 13	5 47	2 39
12	6 11	5 49	3 33
13	6 9	5 51	4 30
14	6 7	5 53	5 29
15	6 5	5 55	6 28
E	6 3	5 57	7 26
17	6 1	5 59	8 24
18	5 59	6 1	9 19
19	5 57	6 3	10 11
20	5 55	6 5	11 2
21	5 53	6 7	11 52
22	5 51	6 9	morn
E	5 49	6 11	0 42
24	5 47	6 13	1 32
25	5 45	6 15	2 23
26	5 43	6 17	3 14
27	5 41	6 19	4 5
28	5 39	6 21	4 55
29	5 37	6 23	5 44
E	5 36	6 24	6 33
31	5 34	6 26	7 20

Monthly Observations

I am apprehenſive of ſome Diſturbances in Turkey, though, I think, not to any great Detriment to our Merchants.

The two Oppoſitions, which uſhered in the Year, threaten Calamities to more Countries than one. Saturn is but a ſurly Meſſenger, and Mars a choleric Antagoniſt; two Oppoſitions, in both of which Mars is concerned, in the ſame Month, give the *Junia in anrum* a gloomy Appearance. And while States are watching one another's Actions with an Eye of Suſpicion, the Church appears to be troubled with Vexations occaſioned by the unchriſtian Contentions and ſeditious Diſputes of bigotted Sectaries. In the Weſt Indies I expect much Trouble, ſome yet *in ovo*; but there is Miſchief enough already hatched to keep them in Action.

NEW Moon 7 day, at midnight.

FIRST Quart. 15 day, at 5 morn.

FULL Moon 21 day, at midn.

LAST Quart. 29 day, at 4 aftern.

I wiſh we may hear of no Loſſes by Sea and Tempeſts; at leaſt, none that affect us.

Let Spain look to her Colonies, otherwiſe, if they do not look to themſelves, I am out. Much Cruelty and Bloodſhed has blackened the Hiſtory of their Conqueſt in thoſe Parts, and the Souls of the INCAS cry for Vengeance.

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While on the late benumbed Ground,
The Clouds their Fatneſs drop around;
And now from ev'ry Spray,
The feathered Songſters tune their Notes,
And warbling, from their little Throats,
Hail the approaching May.

M D	W D	Faſts and Feſtivals	☉ ♈	☽'s Signs	☽'s A	☽ riſes and ſets	Mutual Aſp. and Weather
1	T		12	and	26	3 m 13	Expect cold
2	W	*Ox. and C. T.b.*	13	ancles	27	3 35	Rain and
3	T	*Richard*	14	feet	28	3 54	Windy Wea-
4	F	*St. Ambroſe*	15	toes	29	4 13	ther at the
5	S	Old Lady Day	16	head	30	4 30	beginning.
6	E	2 S. aft. Eaſter	17	face	N	☽ ſets	
7	M		18	neck	2	8 a 22	Afterwards
8	T		19	and	3	9 40	ſomewhat
9	W	*Eaſter T. beg.*	20	throat	4	10 52	warmer.
10	T		21	arms	5	11 57	✱ ☉ ♃
11	F		22	ſhoul.	6	morn	□ ☉ ♂
12	S		23	breaſt	7	0 50	Showers
13	E	3 S. aft. Eaſter	24	ſtom.	8	1 33	in the Middle
14	M		25	heart	9	2 6	of the Month.
15	T		26	back	10	2 34	□ ♄ ♀
16	W		27	bow.	11	2 57	Some briſk
17	T		28	belly	12	3 19	Gales and
18	F		29	reins	13	3 39	drizling Rain
19	S	*Alphege*	♉	loins	14	4 0	now about.
20	E	4 S. aft. Eaſter	1	ſecret	F	☽ riſes	
21	M		2	mem-	16	8 53	Pleaſant
22	T		3	bers	17	9 58	Weather to
23	W	St. George.	4	hips	18	10 56	be expected.
24	T		5	thighs	19	11 44	
25	F	St. Mark. Prs.	6	knees	20	morn.	
26	S	[Mary b.	7	and	21	0 24	
27	E	Rogation S.	8	hams	22	0 55	Towards the
28	M		9	legs	23	1 22	✱ ☉ ♄
29	T		10	ancles	24	1 43	End Wind
30	W		11	feet	25	2 2	and Rain.

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The 3 day, at 9 morn. Saturn
The 5 day, at 5 morn. Mercury
The 9 day, at 4 aftern. Venus
The 11 day, at 5 morn. Jupiter
The 13 day, at 10 morn. Mars
The 30 day, at 11 at night, Saturn
} is with the Moon.

M D	Sun rises	Sun sets	Moon Souths
1	5 32	6 28	8 m 4
2	5 30	6 30	8 49
3	5 28	6 32	9 33
4	5 26	6 34	10 17
5	5 24	6 36	11 2
E	5 22	6 38	11 50
7	5 20	6 40	0 a 41
8	5 18	6 42	1 35
9	5 16	6 44	2 32
10	5 14	6 46	3 31
11	5 12	6 48	4 31
12	5 10	6 50	5 30
E	5 8	6 52	6 27
14	5 6	6 54	7 21
15	5 5	6 55	8 13
16	5 3	6 57	9 3
17	5 1	6 59	9 52
18	4 59	7 1	10 40
19	4 57	7 3	11 29
E	4 55	7 5	morn.
21	4 53	7 7	0 20
22	4 51	7 9	1 11
23	4 50	7 10	2 2
24	4 48	7 12	2 53
25	4 46	7 14	3 43
26	4 44	7 16	4 32
E	4 42	7 18	5 19
28	4 40	7 20	6 5
29	4 39	7 21	6 49
30	4 37	7 23	7 32

Monthly Obſervations

In the cœleſtial Circuit we find ſome Aſpects carrying the ſweet Smile of Peace, and it is to be hoped that the gentle Influence of theſe Configurations will at leaſt moderate and mitigate thoſe of a more virulent Nature.

NEW Moon 6 day, at 1 aftern.

Let us hope that many clandeſtine Deſigns and Contrivances againſt the Peace of the World, may, by the unforeſeen Interpoſition of divine Providence, become fruſtrate; and that Things deſigned for Evil may, by the good Hand of God, be turned out for good; however for Eu-

FIRST Quart. 13 day, at noon.

rope, and I wiſh for Mankind in general: perhaps ſome ſowers of Sedition, Faction, and Diſcontent, are become more wiſe and more peaceable.

For the laſt, I ſpeak at home. I am conſcious that Work enough abroad is cut

FULL Moon 20 day, at noon.

for the Year 88; but I hope England has little to do with it. A commercial Country has Concerns with every one; and where that is engaged in Wars, the other muſt ſuffer.

I have one Thing to ſay. Truſt France and us the commercial Scheme, and we are a Match for the World. But what

LAST Quart. 28 day, at noon.

means this Commotion in Holland? Pray God we be wiſe enough to keep ourſelves out of the Scrape!

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The Clouds their grateful Showers diſtill'd,
How joyous looks the promis'd Field,
The Meads how gay around;
While Wood, and Grove, and purling Brook,
Where'er we tread, where'er we look,
Appear enchanted Ground.

M D	W D	Faſts and Feſtivals	☉ ♉	☽'s Signs	☽'s A	☽ riſes and ſets	Mutual Aſp. and Weather
1	T	Aſcenſion	12	and	26	2 m 21	St. Phil. & Ja.
2	F		13	toes	27	2 39	☌ ♃ ♀
3	S	*Inv. of the Croſs*	14	head	28	3 0	Some Wind
4	E	Sun. aft. Aſc.	15	face	29	3 21	may be ex-
5	M	*Eaſt. Term end.*	16	neck	30	3 48	pected at the
6	T	*I. Ev. A. P. L.*	17	throat	N	☽ ſets	beginning,
7	W		18	arms	2	9 a 51	with ſome
8	T	*Oxf. T. ends.*	18	thoul.	3	10 49	✶ ♃ ♅
9	F		19	breaſt	4	11 36	Showers; ex
10	S		20	ſtom.	5	morn	pect Rain a-
11	E	Whit Sunday	21	heart	6	0 12	bout the full
12	M	Whit Mond.	22	back	7	0 42	Old May-d.
13	T	Whit Tueſd.	23	bow.	8	1 5	of the Moon.
14	W	Ember Week	24	belly	9	1 27	elſe no great
15	T		25	reins	10	1 48	△ ♄ ♀
16	F		26	and	11	2 7	✶ ♄ ♅
17	S		27	loins	12	2 29	✶ ♀ ♅
18	E	Trinity Sun.	28	ſecret	13	2 54	Alteration,
19	M	Q. Charl. b.	29	memb.	14	3 24	*Dunſtan.*
20	T		♊	hips	F	☽ riſes	but generally
21	W	*Oxf. Term beg.*	1	and	16	9 a 41	good ſeaſon-
22	T	Pr. Eliz. b.	2	thighs	17	10 22	*Corpus Chriſti*
23	F	*Trin. T. beg.*	3	knees	18	11 57	able Wea-
24	S		4	hams	19	11 24	ther.
25	E	1 S. aft. Trin.	5	legs	20	11 46	
26	M	*Auguſtin*	6	and	21	morn	Towards the
27	T	*Ven. Bede.*	7	ancles	22	0 7	End expect
28	W		8	feet	23	0 26	ſome Wind
29	T	K. C. II. Reſt.	9	toes	24	0 43	and Rain.
30	F		10	head	25	1 1	☌ ☉ ♅
31	S		11	face	26	1 21	□ ♄ ♅

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The 4 day, at 3 morn. Mercury
The 8 day, at 9 night, Jupiter
The 9 day, at 7 morn. Venus
The 11 day, at 2 aftern. Mars
The 28 day, at 11 morn. Saturn
} is with the Moon.

M D	Sun rises	Sun sets	Moon Souths	Monthly Observations.
1	4 35	7 25	8m 14	I must here step out of my common
2	4 34	7 26	8 59	road of observations, to rectify a mistake
3	4 32	7 28	9 47	made for the year 1786, of which the au-
E	4 30	7 30	10 35	thor of Carnan's almanack, which he
5	4 28	7 32	11 28	publishes under this signature, writes as
6	4 27	7 33	0a 25	NEW Moon 5 day, at midnight
7	4 25	7 35	1 25	follows:
8	4 23	7 37	2 26	*Transit of Venus over the Sun's disk, placed in almanacs printed for the Worshipful Company of Stationers for May 3, did not happen till May 4, as described in the almanacs printed for Carnan.*
9	4 22	7 38	3 27	
10	4 20	7 40	4 26	
E	4 19	7 41	5 22	
12	4 17	7 43	6 14	FIRST Quar. 12 day, at 6 after.
13	4 16	7 44	7 4	
14	4 14	7 46	7 52	*Errare humanum est.*
15	4 13	7 47	8 39	And so far am I from endeavouring to
16	4 11	7 49	9 27	exculpate myself, that I have printed the
17	4 10	7 50	10 16	mistake in Italics, that it may catch the
E	4 8	7 52	11 5	eyes of every one. At the same time I
19	4 7	7 53	11 56	must observe that the calculation was
20	4 6	7 54	morn	just; and whether that mistake in a sin-
21	4 4	7 56	0 47	gle figure was a slip of the pen, or a press
22	4 3	7 57	1 38	FULL Moon 20 day, at 1 morn.
23	4 2	7 58	2 27	
24	4 0	8 0	3 15	error, the copy being out of my hand, and
E	3 59	8 1	4 0	I at a great distance from the office, I
26	3 58	8 2	4 44	cannot at present determine.
27	3 57	8 3	5 27	Give me leave to write once more in
28	3 56	8 4	6 9	Italics. The author of this present diary,
29	3 55	8 5	6 52	in the year 1786, for the month September
30	3 54	8 6	7 36	made this observation:
31	3 53	8 7	8 23	LAST Quar. 28 day, at 5 morn.
				Beware the Ides of March, said Spurina to Cæsar. Cæsar's incredulity lost Cæsar his life.

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Thus in the Moral World we see
Youth full of Life and Jolity,
Sport thoughtleſs blithe and gay:
They know no Dread, they feel no Fears,
And unſuſpicious ſee no ſnares
Laid in the Flow'ry Way.

M D	W D	Feaſts and Feſtivals	☉ ♊	D's Signs	D A	D riſes & ſets	Mutual Aſp. and Weather
1	E	2 S. aft. Trin.	12	neck	27	1 m 45	*Nicomede*
2	M		12	throat	28	2 14	Some Showers
3	T		13	arms	29	2 52	at the ☀ ☌ ☿
4	W	K Geo. III. b.	14	ſhould	N	☽ ſets	Sun eclipſed.
5	T	Pr. Er. Aug. b.	15	breaſt	2	9 a 27	*Boniface.*
6	F		16	ſtom.	3	10 11	Beginning af-
7	S		17	heart	4	10 43	terwards fair
8	☊	3 S. aft. Trin.	18	and	5	11 8	and pleaſant,
9	M		19	back	6	11 31	with an In-
10	T	Prs. A. So. b.	20	bowels	7	11 51	creaſe of Heat
11	W	St. Barnabas	21	belly	8	morn	*Tr. Term. ends.*
12	T		22	reins	9	0 10	Some ♂ ♃ ☿
13	F		23	loins	10	0 32	miſty △ ♃ ☿
14	S		24	ſecret	11	0 56	Mornings.
15	E	4 S. aft. Trin.	25	memb	12	1 23	Perhaps ſome
16	M		26	hips	13	1 57	Thunder
17	T	*St. Alban*	27	and	14	2 38	about this
18	W		28	thighs	F	☽ riſes	Time. After-
19	T		29	knees	16	8 a 52	wards, good,
20	F	*Tr. Ed. K. W. S.*	30	hams	17	9 24	pleaſant, &
21	S	*Longeſt Day*	♋	legs	18	9 46	ſeaſonable
22	E	5 S. aft. Trin.	2	and	19	10 7	Weather for
23	M		3	ancles	20	10 25	ſome Days.
24	T	Nat. J. Bapt.	4	feet	21	10 43	Then Winds
25	W		4	toes	22	11 1	& moiſt Air;
26	T		5	head	23	11 19	which being
27	F		6	and	24	11 40	paſt, we
28	S		7	face	25	morn	hope good
29	☊	6 S. aft. Trin.	8	neck	26	0 6	St. Pet. ☉ ♃
30	M		9	breaſt	27	0 38	ſetled Wea-
							ther.

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The 4 day, at 7 even. Mercury
The 5 day, at 3 aftern. Jupiter
The 7 day, at 3 aftern. Venus
The 8 day, at 10 night, Mars
The 24 day, at 7 even. Saturn
} is with the Moon.

M D	Sun rises	Sun sets	Moon South.
E	3 52	8 8	9m 13
2	3 51	8 9	10 7
3	3 50	8 10	11 6
4	3 49	8 11	0 a 8
5	3 49	8 11	1 11
6	3 48	8 12	2 13
7	3 47	8 13	3 11
E	3 47	8 13	4 6
9	3 46	8 14	4 58
10	3 46	8 14	5 47
11	3 45	8 15	6 34
12	3 45	8 15	7 21
13	3 44	8 16	8 10
14	3 44	8 16	8 58
E	3 44	8 16	9 48
16	3 43	8 17	10 38
17	3 43	8 17	11 28
18	3 43	8 17	morn
19	3 43	8 17	0 18
20	3 43	8 17	1 6
21	3 43	8 17	1 52
E	3 43	8 17	2 36
23	3 43	8 17	3 19
24	3 43	8 17	4 1
25	3 43	8 17	4 42
26	3 44	8 16	5 25
27	3 44	8 16	6 9
28	3 44	8 16	6 56
E	3 45	8 15	7 47
30	3 45	8 15	8 42

Monthly Observations.

Now the truth is, that the author of this performance did in his judgment upon the figure of the Heavens for that quarter suspect an attempt upon some monarch.

NEW Moon 4 day, at 9 morn.

Crowned heads are sacred, and little people like me, in these affairs, ought to be extremely cautious; I however did my duty both to my king and profession in the hint before-mentioned. It will appear in the annals of that year, and that quar-

FIRST Quar. 10 day midnight.

ter, which being a bloody design, I suppose I may be allowed to write again in Italics, that *Margaret Nicholson, a lunatic, and a native of Stowesley in Yorkshire, attempted to stab the King as he was alighting from his carriage at St. James's, but was happily prevented*

FULL Moon 18 day, at 3 aftern.

by the attendants, and sent to Bedlam for life.

This may methinks serve to convince a deluded multitude, that there may be more truth in astrology than they think of: and that the art may be true, though the artist be fallible; and that the gentleman might have shewn himself a better

LAST Quar. 26 day, at 7 aftern.

subject and a more able astrologer, in dropping a hint of this kind, than in detecting a single false figure.

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And now beneath the leafy Shade
The love-torn Swain his Limbs has laid,
His Chloe falſe the Theme:
But future Days (fond Swain) ſhall ſhew
That whether Chlo's falſe or True,
Life's but an idle Dream.

M D	W D	Falls and Feſtivals	☉ ♍	D's Signs	D A	D riſes & ſets	Mutual Aſp. and Weather
1	T	*Cam. Comence*	10	arms	28	1 m 22	△ ☉ ♄
2	W	*Viſit. B. V. M.*	11	ſhould	29	2 19	High Winds
3	T	*Dogs days begin*	12	breaſt	N	D ſets	at the
4	F	*Tra. St. Martin*	13	ſtom.	2	8 a 34	*Cam. Termends*
5	S	*Old Midſ. Day*	14	heart	3	9 5	Beginning,
6		7 S. aft. Trin.	15	back	4	9 29	with ſome
7	M	*Oxford Act*	16	bowels	5	9 51	driſling Rain;
8	T		17	belly	6	10 9	but after
9	W		18	reins	7	10 32	△ ♄ ♅
10	T		19	loins	8	10 55	☌ ♄ ♂
11	F		20	ſecret	9	11 21	that good and
12	S	*Oxf. Term ends*	21	memb	10	11 53	✶ ♅ ♂
13		8 S. aft. Trin.	22	bers	11	morn	ſeaſonable
14	M		23	hips	12	0 32	Weather
15	T	*Swithin.*	24	thighs	13	1 18	is expected, &
16	W		24	knees	14	2 11	in all proba-
17	T		25	and	15	3 11	bility,
18	F		26	hams	F	D riſes	very hot and
19	S		27	legs	17	8 a 10	ſultry
20		9 S. aft. Trin.	28	ancles	18	8 29	*Margaret*
21	M		29	feet	19	8 46	Weather for
22	T	*Magdalen.*	♌	and	20	9 4	ſome Days.
23	W		1	toes	21	9 22	But after the
24	T		2	head	22	9 43	full Moon,
25	F	St. James	3	face	23	10 6	ſome pleaſant
26	S	*St. Anne*	4	neck	24	10 36	cooling Gales
27		10 S. aft. Trin.	5	throat	25	11 11	of Wind,
28	M		6	arms	26	morn	and we hope
29	T		7	ſhould.	27	0 0	in General
30	W		8	breaſt	28	1 2	good Harveſt
31	T		9	ſtom.	29	2 16	Weather.

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The 3 day, at 12 noon, Jupiter
The 5 day, at 1 aftern. Mercury
The 6 day, at 7 morn. Venus
The 7 day, at 9 morn. Mars
} is with the Moon.
The 22 day, at 11 night, Saturn
The 31 day, at 8 morn. Jupiter

M D	Sun rises	Sun sets	Moon Souths
1	3 46	8 14	9 m 42
2	3 46	8 14	10 45
3	3 47	8 13	11 46
4	3 48	8 12	0 a 50
5	3 48	8 12	1 49
E	3 49	8 11	2 44
7	3 50	8 10	3 35
8	3 50	8 10	4 24
9	3 51	8 9	5 13
10	3 52	8 8	6 2
11	3 53	8 7	6 50
12	3 54	8 6	7 40
E	3 55	8 5	8 30
14	3 56	8 4	9 20
15	3 57	8 3	10 9
16	3 58	8 2	10 58
17	4 0	8 0	11 45
18	4 1	7 59	morn
19	4 2	7 58	0 30
E	4 3	7 57	1 14
21	4 5	7 55	1 56
22	4 6	7 54	2 37
23	4 7	7 53	3 19
24	4 9	7 51	4 2
25	4 10	7 50	4 48
26	4 11	7 49	5 36
E	4 13	7 47	6 28
28	4 14	7 46	7 24
29	4 16	7 44	8 23
30	4 17	7 43	9 25
31	4 18	7 41	10 27

Monthly Observations.

But I have no wish to quarrel with any one, and if others in this line will but let

NEW Moon 3 day, at 4 aftern.

me purſue my buſineſs in quietneſs, I ſhall never concern my head about any performance of theirs.

Proceed we now to our obſervations of the cœleſtial wanderers: Let me aſk you now, Where is ancient Troy? ancient Greece? ancient Rome? all capital in

FIRST Quar. 10 day, at 3 morn.

their day, and maſters or miſtreſſes of the univerſe. Kingdoms and ſtates have their infancy, their growth, and having arrived at a certain pitch of grandeur, then comes their decay, and their final diſſolution. Hiſtory is full of theſe mutations, and the preſent age affords us a diſtant proſpect of a riſing empire in the weſtern world. The

FULL Moon 18 day, at 7 morn.

peopling of Botany Bay may, in all probability in a ſeries of revolving years, lay the foundation of future ſtates and governments as yet unthought of. Thus the various mutations of the world coincide with thoſe of the celeſtial bodies, and the different aſpects on this terreſtrial orb

LAST Quarter 26 day at 6 morn.

with thoſe of the celeſtial ones.

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Again the Sun does later rise,
Again he marches down the Skies,
And busy Autumn rears
His sheafy Head, and every Swain,
To pluck his Fruits, and bare the Plain,
His Implements prepares.

M D	W D	Facts and Festivals	☉ ☊	☽'s Signs	☽ A	rises & sets	Mutual Asp. and Weather
1	F	*Lammas Day*	10	heart	N	☽ sets	Rain and
2	S		11	back	2	7 a 28	☌ ☉ ☿
3	ℰ	11 S.aft.Trin.	12	bowels	3	7 51	misty Morn-
4	M		13	belly	4	8 13	ings.
5	T		14	reins	5	8 36	Seasonable
6	W	*Transfiguration*	15	loins	6	9 0	Weather to
7	T	Prs. Amelia b.	16	secret	7	9 25	*Name of Jesus.*
8	F		16	mem-	8	9 55	☌ ☉ ♀
9	S		17	bers	9	10 32	the Change
10	ℰ	12 S.aft.Trin.	18	hips	10	11 16	*St Lawrence.*
11	M	Prs. Brunf. b.	19	thighs	11	morn	*Dog Days end.*
12	T	Pr. Wales b.	20	knees	2	0 8	*O. Lamm. D.*
13	W		21	and	13	1 6	of the Moon,
14	T		22	hams	14	2 8	when Rain,
15	F	*Assumption*	23	legs	15	3 12	with Thunder
16	S	D. of York b.	24	ancles	F	☽ rises	and Heat,
17	ℰ	13 S.aft.Trin.	25	feet	17	6 a 55	may be ex-
18	M		26	and	18	7 14	pected.
19	T		27	toes	19	7 34	Showers also
20	W		28	head	20	7 53	☌ ♀ ☿
21	T	Pr. W. Hen. b.	29	face	21	8 16	about this
22	F		30	neck	22	8 43	Time, and
23	S		♍	and	23	9 15	perhaps some
24	ℰ	14 S. aft. Trin.	2	throat	24	9 59	*St. Bartholom.*
25	M		3	arms	25	10 52	Thunder also,
26	T		4	should	26	11 58	the End more
27	W		5	breast	27	morn	seasonable,
28	T	*St. Augustine*	6	stom.	28	1 16	yet not with-
29	F	*Beh. of J. Bapt.*	7	heart	29	2 39	out some driz-
30	S		8	back	30	4 6	☌ ♄ ☉
31	ℰ	15 S. aft. Trin.	9	bowels	N	☽ sets	ling Rain.

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The 2 day, at 1 morn. Mercury
The 2 day, at 2 aftern. Venus.
The 4 day, at 12 night, Mars
The 18 day, at 2 morn. Saturn
The 28 day, at 2 morn. Jupiter
The 29 day, at 6 morn. Venus
The 30 day, at 6 morn. Mercury.
} is with the Moon.

M D	Sun rises	Sun sets	Moon Souths
1	4 20	7 40	11m 29
2	4 22	7 38	0a 26
E	4 24	7 36	1 21
4	4 25	7 35	2 14
5	4 27	7 33	3 5
6	4 28	7 32	3 55
7	4 30	7 30	4 45
8	4 32	7 28	5 35
9	4 34	7 26	6 25
E	4 35	7 25	7 16
11	4 37	7 23	8 7
12	4 39	7 21	8 56
13	4 41	7 19	9 44
14	4 42	7 18	10 30
15	4 44	7 16	11 14
16	4 46	7 14	11 57
E	4 48	7 12	morn
18	4 50	7 10	0 39
19	4 51	7 9	1 22
20	4 53	7 7	2 5
21	4 55	7 5	2 50
22	4 57	7 3	3 37
23	4 59	7 1	4 27
E	5 1	6 59	5 20
25	5 2	6 58	6 16
26	5 4	6 56	7 15
27	5 6	6 54	8 15
28	5 8	6 52	9 15
29	5 10	6 50	10 14
30	5 12	6 48	11 11
E	5 14	6 46	0a 5

Monthly Obfervations.

NEW Moon 1 day, at 11 night

And ſpite of the malignant ſneers of conceited ignorance, this will be the caſe till the globe itſelf (as the poet finely expreſſes it) and all that it inherit ſhall diſſolve, and like the baſeleſs fabric of a viſion, leave not a wreck behind.

But this ſhall not be till the orbs have run their deſtined rounds, and though of that

FIRST Quar. 8 day, at 7 aftern.

day knoweth no man, and when it cometh it ſhall be as a thief in the night upon the unſuſpicious multitude, who ſhall be buying and ſelling, marrying and giving in marriage, ſome laying up ſtores for times to come, and others ſaying to themſelves, Soul take thy reſt, for thou art provided for many years. And I think

FULL Moon 16 day, at 10 night

I have the ſure word of prophecy to back my aſſertion, if I ſay the end is not yet. Nations yet uncivilized, children yet unborn, and countries yet undiſcovered, as I have elſewhere obſerved, muſt come to the knowledge of the Meſſiah. The ſeed of Abraham be called in, Antichriſt deſtroyed, and the ſtandard of that great

LAST Quar. 24 day, at 4 after.

impoſtor Mahomet, utterly removed from the earth, before the coming of that great and terrible day.

NEW MOON 31 day, at 7 morn.

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Think we of this while in our Prime,
And wisely guard against the Time
When we no more shall rise
To Scenes of Joy: the deafened Ear
No more the jocund Strain shall hear;
But Vapours dim our Eyes.

N D	W D	Fasts and Festivals	☉ ♍	☽'s Signs	☽ A	☽ rises & sets	Mutual Asp. and Weather
1	M	*Giles*	10	belly	2	6 a 44	Moist Air, af-
2	T	*London burnt*	11	reins	3	7 8	terwards good
3	W		12	loins	4	7 33	seasonable
4	T		13	secret	5	8 3	Weather for
5	F		14	memb	6	8 38	several Days,
6	S		14	hips	7	9 20	☍ ♄ ☿
7	E	16S. aft. Trin.	15	and	8	10 9	*Eunurchus.*
8	M	*Nat. Virg Mary*	16	thighs	9	11 5	and probably
9	T		17	knees	10	morn	no very con-
10	W		18	hams	11	0 6	siderable Al-
11	T		19	legs	12	1 11	teration, ex-
12	F		20	and	13	2 17	cepting some
13	S		21	ancles	14	3 23	misty Morn-
14	E	17S. aft. Trin.	22	feet	15	4 31	*H. Cr.* ☌ ☉ ☿
15	M		23	toes	F	☾ rise	✱ ♃ ☿
16	T		24	head	17	6 a 9	✱ ☉ ♃
17	W	Ember Week	25	face	18	6 31	*Lambert*
18	T		26	neck	19	6 58	□ ♃ ♂
19	F		27	and	20	7 28	ings, and
20	S		28	throat	21	8 8	some brisk
21	E	18S. aft. Trin.	29	arms	22	8 57	St. Matthew
22	M	K. Geo. III. cr.	♎	shoul.	23	9 58	Winds.
23	T		1	breast	24	11 9	Rain with
24	W		2	stom.	25	morn	Wind may
25	T		3	heart	26	0 28	be expected.
26	F	*St. Cyprian*	4	back	27	1 50	More season-
27	S		5	bow.	28	3 13	able, but
28	E	19S. aft. Trin.	6	belly	29	4 36	likely to con-
29	M	St. Michael	7	loins	N	☽ sets	ns. Ch. An. M b
30	T	*St. Jerome.*	8	reins	2	5 a 43	clude with
							Rain.

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The 2 day, at 5 aftern. Mars
The 14 day, at 4 morn. Saturn
The 24 day, at 7 aftern. Jupiter
The 26 day, at 9 morn. Venus
The 30 day, at 12 noon, Mercury.
} is with the Moon.

M D.	Sun rises	Sun sets	Moon Souths
1	5 16	6 44	0 a 57
2	5 18	6 42	1 49
3	5 20	6 40	2 41
4	5 22	6 38	3 33
5	5 23	6 37	4 25
6	5 25	6 35	5 17
E	5 27	6 33	6 8
8	5 29	6 31	6 58
9	5 31	6 29	7 47
10	5 33	6 27	8 34
11	5 35	6 25	9 19
12	5 37	6 23	10 2
13	5 39	6 21	10 45
E	5 41	6 19	11 28
15	5 43	6 17	morn
16	5 45	6 15	0 12
17	5 47	6 13	0 57
18	5 49	6 11	1 44
19	5 51	6 9	2 33
20	5 53	6 7	3 25
E	5 55	6 5	4 20
22	5 57	6 3	5 17
23	5 59	6 1	6 15
24	6 1	5 59	7 14
25	6 3	5 57	8 11
26	6 4	5 56	9 6
27	6 6	5 54	10 0
E	6 8	5 52	10 52
29	6 10	5 50	11 44
30	6 12	5 48	0 a 37

Monthly Observations.

The hand of Time moved by the wisdom of God, worketh imperceptibly; and I sincerely believe, that by the End of the present Century (a Period I shall never arrive at, but long before then be laid in Dust; and my Soul I hope be soaring be-

FIRST Quar. 7 day, at 9 morn.

yond those Stars whose Motions I long have contemplated) the History of this Century will give ample Intelligence that the great Work is carrying on, and will in God's good Time be accomplished; the Day nor the Hour know we not; nor even the Angels in Heaven, who look upon the cœlestial Wanderers in wonder, ad-

FULL Moon 15 day, at 1 aftern.

mire the mystic Dance, and I doubt not are surprized that those Beings which God the great Creator of all has endowed with such Intelligence, should run off from this grand Circle of the Sciences, and laugh at that which they ought to revere.

True it is that God has by many Means

LAST Quar. 22 day, at midnight.

communicated his divine Will, and his future Judgments, to those who love and fear him; then why need we doubt that he who is the same Yesterday, To-day, and for ever, will yet communicate it. I love, I fear him, yet a poor Worm as I am in his Sight, I expect no more Illu-

NEW Moon 29 day, at 4 aftern.

mination than what he has given to those

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Now farewell Frolic, Mirth, and Noiſe;
The Hopes of Spring, the Summer's Joys
Like Shadows flown are o'er;
And thus alas (to ſing the Truth,)
Shall Manhood paſs, and giddy Youth,
And Paſtime be no more!

M D	W D	Faſts and Feſtivals	☉ ♎	♏'s Signs	☽ A	☽ riſes & ſets	Mutual Aſ and Weather
1	W	*Remigius*	9	ſecret	3	6 a 9	Cloudy, dark
2	T		10	mem-	4	6 45	Weather,
3	F		11	bers	5	7 25	△ ♄ ♂
4	S		12	hips	6	8 11	with cold
5	E	20S. aft. Trin.	13	thighs	7	9 5	□ ♄ ☿, ✶ ♀
6	M	*Faith*	14	knees	8	10 5	[☿
7	T		15	hams	9	11 8	Winds and
8	W		16	legs	10	morn	driſling
9	T	*St. Denys*	17	and	11	0 12	Showers.
10	F	*Oxf & Cam. T*	18	ancles	12	1 19	*Old Mich. Day*
11	S	[*beg.*	19	feet	13	2 26	More plea-
12	E	21S. aft. Trin.	20	toes	14	3 34	ſant Weather
13	M	*Tr. K. Ed. Conf*	21	head	15	4 42	☍ ♄ ♀
14	T		22	and	16	5 42	Briſk Winds,
15	W		23	face	F	☽ riſes	till about
16	T		24	neck	18	5 a 35	the 22d Day,
17	F	*Etheldred*	25	throat	19	6 14	☌ ♂ ☿
18	S	St. Luke	26	arms	20	6 59	when cold
19	E	22S. aft. Trin.	27	ſhould	21	7 59	and wet Wea-
20	M		28	breaſt	22	8 8	may be
21	T		29	ſtom.	23	10 21	☐ ☉ ♃
22	W		30	heart	24	11 41	expected.
23	T		♏	back	25	morn	Towards the
24	F		2	bowels	26	1 2	End more
25	S	K. Geo. III. ac.	3	and	27	2 22	*Criſpin*
26	E	23S. aft. Trin.	4	belly	28	3 42	K. Geo. III po.
27	M		5	reins	29	5 2	△ ☉ ♄
28	T	St Sim. & Jude	6	loins	30	6 21	△ ♄ ☿
29	W		7	ſecret	N	☽ ſets	temperate
30	T		8	memb	2	5 a 22	and mild
31	F		9	hips	3	6 7	weather.

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The 1 day, at 1 aftern.	Mars	}	is with the Moon.
The 11 day, at 9 morn.	Saturn		
The 22 day, at 6 morn.	Jupiter		
The 25 day, at 2 aftern.	Venus		
The 30 day, at 9 morn.	Mars		
The 31 day, at 1 morn.	Mercury		

M D	Sun rises	Sun sets	Moon Souths
1	6 14	5 46	1 a 29
2	6 16	5 44	2 23
3	6 18	5 42	3 16
4	6 20	5 40	4 8
E.	6 22	5 38	4 59
6	6 24	5 36	5 49
7	6 26	5 34	6 37
8	6 28	5 32	7 22
9	6 30	5 30	8 6
10	6 32	5 28	8 49
11	6 34	5 26	9 32
E	6 36	5 24	10 15
13	6 38	5 22	11 0
14	6 40	5 20	11 47
15	6 42	5 18	morn
16	6 44	5 16	0 36
17	6 45	5 15	1 28
18	6 47	5 13	2 23
E	6 49	5 11	3 20
20	6 51	5 9	4 18
21	6 53	5 7	5 16
22	6 55	5 5	6 12
23	6 57	5 3	7 6
24	6 59	5 1	7 58
25	7 1	4 59	8 49
E	7 3	4 57	9 40
27	7 4	4 56	10 31
28	7 6	4 54	11 23
29	7 8	4 52	0 a 15
30	7 10	4 50	1 8
31	7 12	4 48	2 1

Monthly Observations.

who are greater than I, as much as *one Star exceedeth another in Glory*, with this Humiliation I only write such Hints which I have received from the Ancients; and they I sincerely believe from the Ancient of Days.

FIRST Quar. 7 day, at 3 morn.

Th[illegible] expect every Month to see what will happen are much mistaken. God will work in his Time, not theirs. And, for my part, I often reflect that when there comes an Oppofition or a Quadrate of inimicable Signs, while others are in amicable Aspects, 'tis not for me

FULL Moon, 15 day, at 4 morn.

to determine how Matters will fall out. Besides (as I think I have somewhere else observed) under such Signs and such a Planet are divers Countries and Cities, it is only from the Account of the Times that

LAST Quar. 22 day, at 7 morn.

the proper Country or City is to be marked out.

Now these cœlestial Orbs all work in God's good Time his own good Will: They foretell by their different Mutations many Changes in the Course of this Year:

NEW Moon 29 day, at 3 morn.

but I hope none to the Disadvantage of Old England.

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When Sol again to Southern Skies
Does sooner set, and later rise,
As downward he does tend.
Contemplative let us survey
The dying Year, the shortning Day,
And meditate our End.

M D	W D	Fasts and Festivals	☉ in ♏	☽'s Signs	☽ A	☽ rises & sets	Mutual Asp. and Weather
1	S	All Saints	10	thighs	4	6 a 59	Seasonable at
2	E	24 S. aft. Trin.	11	knees	5	7 58	Pr. E. b. *All Souls*
3	M	Prs. Sophia b.	12	and	6	8 59	□ ♄ ☿
4	T		13	hams	7	10 3	☌ ♂ ♀
5	W	Powder Plot	14	legs	8	11 9	the Begin-
6	T	*Leonard*	15	ancles	9	morn	*Mich. Term b.*
7	F	D. of Camb. b.	16	feet	10	0 13	△ ♃ ♂, * ♃
8	S	Prs. Aug. So. b	17	and	11	1 18	ning. [♀
9	E	25 S. aft. Trin.	18	toes	12	2 27	But soon
10	M	*Ld. Mayor's D.*	19	head	13	3 36	changes to
11	T	*St. Martin,*	20	face	14	4 47	cold, stormy,
12	W		21	neck	15	5 59	turbulent,
13	T	*Britius*	22	throat	F	☽ rises	□ ♄ ☌, * ♀
14	F		23	arms	17	4 a 55	and wet [☿
15	S	*Machutus*	24	shoul	18	5 51	☌ ☌ ☿
16	E	26 S. aft. Trin.	25	breast	19	6 56	Weather.
17	M	*Hugh*	26	stom.	20	8 7	□ ♄ ☿
18	T		27	heart	21	9 30	Then indif-
19	W		28	back	22	10 49	ferent Wea-
20	T	*Edmund*	29	and	23	morn	△ ☉ ♃
21	F		30	bowels	24	0 9	☌ ☿ ☉
22	S	*Cecilia O. M. D*	♐	belly	25	1 26	*O. Martinmas*
23	E	27 S. aft. Trin.	2	reins	26	2 38	*St. Clement*
24	M		3	loins	27	4 1	ther for the
25	T	D. of Glo. b.	4	secret	28	5 15	□ ☉ ♄ *Cath.*
26	W		5	memb.	29	6 28	Season to the
27	T		6	hips	N	☽ sets	End of the
28	F	*Mich. Term ends*	7	and	2	4 a 43	Month.
29	S		8	thighs	3	5 38	Windy.
30	E	Advent Sund.	9	knees	4	6 39	*St. Andrew*

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The 7 day, at 4 aftern. Saturn
The 18 day, at 1 aftern. Jupiter
The 24 day, at 6 morn. Venus
The 26 day, at 7 aftern. Mercury
The 28 day, at 9 morn. Mars
} is with the Moon.

M D	Sun rises	Sun sets	Moon Souths
1	7 14	4 46	2 a 54
E	7 15	4 45	3 45
3	7 17	4 43	4 33
4	7 19	4 41	5 19
5	7 21	4 39	6 4
6	7 22	4 38	6 47
7	7 24	4 36	7 29
8	7 26	4 34	8 11
E	7 27	4 33	8 54
10	7 29	4 31	9 39
11	7 31	4 29	10 27
12	7 32	4 28	11 18
13	7 34	4 26	morn
14	7 36	4 24	0 13
15	7 37	4 23	1 11
E	7 39	4 21	2 10
17	7 40	4 20	3 9
18	7 42	4 18	4 6
19	7 43	4 17	5 1
20	7 44	4 16	5 54
21	7 46	4 14	6 44
22	7 47	4 13	7 33
E	7 48	4 12	8 22
24	7 50	4 10	9 12
25	7 51	4 9	10 2
26	7 52	4 8	10 54
27	7 53	4 7	11 46
28	7 54	4 6	0 a 39
29	7 56	4 4	1 30
E	7 57	4 3	2 20

Monthly Observations.

We I think are not yet arrived at ou
Zenith; Trade I believe will increase
and I wish Agriculture may keep Pac

FIRST Quar. 5 day at midnight

with it. And now, instead of my Obser
vations on foreign Countries, let me giv
one Hint at Home. Remember, in th
Rage of enclosing, the Labourers yo
employ: Hard is it for them to be robbe
of a Common, which with the utmost In
dustry they have raised a Cow to graz
upon. I think Enclosure might be a Bene

FULL Moon 13 day, at 6 even.

fit to all, seeing that waste Ground is c
Service to Nobody. I speak for the Goo
of my Country. I insist upon it, tha
the Cottages ought to have in lieu of the
Rights certain Quantities of Land grante
them, in which they might not only suppl

LAST Quar. 20 day, at 2 after.

themselves, but supply with their Labou
in Agriculture the next Market Tow
which demands such Products. I for m
Part, sincerely wish to keep up our Islan
to its Zenith (which although I have spok
of the Decay of Nations, ours is at prese
far from it.

NEW Moon 27 day, at 6 even.

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So when Old Age ſhall ſhut thy Sight,
Benumb thy Limbs, and, hapleſs Wight!
No cordial can reſtore;
When Death's cold Hand ſhall cloſe thine Eyes,
In brighter Climes thy Sun may riſe,
And riſe to ſet no more.

M D	W	Faſts and Feſtivals.	☉ ☽	☽'s Signs	☽ A	☽ riſes & ſets:	Mutual Aſp. and Weather
1	M		10	hams	5	7 a 45	Windy with
2	T		11	legs	6	8 49	□ ♃ ♀
3	W		12	and	7	9 53	Snow or Sleet
4	T		13	ankles	8	10 58	at the Com-
5	F		14	feet	9	morn	mencement
6	S	*Nicholas*	15	toes	10	0 3	of this Month
7	☉	2 S. in Advent.	16	head	11	1 9	△ ♄ ♀
8	M	*Concep. V. M.*	17	and	12	2 18	Sharp Air
9	T		18	face	13	3 27	though ſea-
10	W		19	neck	14	4 40	△ ♃ ☿
11	T		20	throat	15	5 53	ſonable.
12	F		21	arms	16	7 2	Cold, windy,
13	S	*Lucy*	22	ſhould	F	☽ riſes	ſtormy, and
14	☉	3 S. in Advent	23	breaſt	18	5 a 41	bad Weather.
15	M		24	ſtom.	19	7 2	More tempe-
16	T	*O. Sapientia*	25	heart	20	8 23	*Cam. T. ends.*
17	W	Ember Week	26	back	21	9 47	*Oxf. T. ends*
18	T		27	bowels	22	11 6	rate.
19	F		28	belly	☽	morn	
20	S		29	reins	24	0 23	Cold, cloudy,
21	☉	4 S. in Advent	♑	loins	25	1 38	St. Tho. *Sho. D.*
22	M		1	ſecret	26	2 53	dark, diſmal,
23	T		2	memb.	27	4 5	and windy
24	W		3	hips	28	5 12	△ ♃ ♀
25	T	Chriſtmas-day	5	and	29	6 16	✶ ♄ ♂
26	F	St. Stephen	6	thighs	30	7 7	✶ ☉ ♄, ☌ ☉
27	S	St. John	7	knees	N	☽ ſets	Holy In. [♂
28	☉	1 S. aft. Chriſt.	8	hams	2	5 a 16	
29	M		9	legs	3	6 21	
30	T		10	and	4	7 27	Weather
31	W	*Silveſter*	11	ankles	5	8 32	

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The 5 day, at 1 morn. Saturn
The 15 day, at 6 aftern. Jupiter
The 24 day, at 4 morn. Venus
The 26 day, at 2 morn. Mercury
The 27 day, at 12 noon. Mars
} is with the Moon.

M D	Sun rises	Sun sets	Moon Souths
1	7 58	4 2	3 a 7
2	7 59	4 1	3 52
3	8 0	4 0	4 35
4	8 0	4 0	5 17
5	8 1	3 59	5 58
6	8 2	3 58	6 39
E	8 3	3 57	7 22
8	8 4	3 56	8 7
9	8 4	3 56	8 56
10	8 5	3 55	9 49
11	8 5	3 55	10 45
12	8 6	3 54	11 44
13	8 6	3 54	morn
E	8 7	3 53	0 44
15	8 7	3 53	1 44
16	8 7	3 53	2 42
17	8 8	3 52	3 38
18	8 8	3 52	4 31
19	8 8	3 52	5 21
20	8 8	3 52	6 10
E	8 8	3 52	6 58
22	8 8	3 52	7 47
23	8 8	3 52	8 37
24	8 8	3 52	9 28
25	8 7	3 53	10 19
26	8 7	3 53	11 11
27	8 7	3 53	0 a 1
28	8 6	3 54	0 48
29	8 6	3 54	1 34
30	8 5	3 55	2 18
31	8 5	3 55	3 0

Monthly Obſervations.

Whatever Writer in the Aſtrological Line ſpeaks Peace to the World, they are wrong. If they ſpeak Peace to England,

FIRST Quar. 5 day, at 9 night

I hope they are right. This Year, in my Opinion, will be a Year of Diſturbance in many Parts of the World. I have given my ſimple Opinion fairly and honeſtly, and take it they who like.

The various Aſpects of different Kinds I will not venture to interpret, as upon the

FULL Moon 13 day, at 6 morn.

whole they beſpeak no Good; but the Evil may happen to other Regions, and not ours: let us wait with Patience, and I make not the leaſt Doubt but unſpeak-

LAST Quar. 19 day, at 10 night

able Truth will be intelligible, but I hope not to England's Detriment. Nations have their Riſe and Fall, but England I think is not yet at its Zenith.

God Almighty bleſs our gracious Sovereign, Chriſt Jeſus protect his royal Con-

NEW Moon 27 day, at noon

ſort, and for the Iſſue of their Bodies, May Father, Son, and Holy Ghoſt bleſs them and all of them, for evermore,

Amen.

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The Dominion of the Moon in Man's Body, Passing under the Twelve Zodiacal Conſtellations.

♈ *Aries* Head and Face	♎ *Libra* Reins and Loins
♉ *Taurus* Neck and Throat	♏ *Scorpio* ſecret Members
♊ *Gemini* Arms and ſhoulders	♐ *Sagittary* Hips and Thighs
♋ *Cancer* Breaſt and Stomach	♑ *Capricorn* Knees and Hams
♌ *Leo* Heart and Back	♒ *Aquarius* Legs and Ancles
♍ *Virgo* Bowels and Belly	♓ *Piſces* Feet and Toes

The Names and Characters of the PLANETS

With the *Dragon's Head* and *Tail*.

♄ Saturn, ♃ Jupiter, ♂ Mars } ☉, or the Sun { ♀ Venus, ☿ Mercury, ☽ the Moon

☊ Dragon's Head.—☋ Dragon's Tail.

The CHARACTERS of the ASPECTS.

☌ Conjunction, ✱ Sextile } ☍ Oppoſition { △ Trine, □ Quartile

Upon the TWELVE SIGNS.

♈ The Head and Face the *Ram* doth always rule:
♉ The Neck and Throat are govern'd by the *Bull*.
♊ O'er the Arms and Shoulders ſtill the *Twins* preſide:
♋ Breaſt, Stomach, Ribs, the crooked *Crab* doth guide.
♌ The noble *Lion* rules the Back and Heart:
♍ The baſhful *Virgin* claims the Belly Part.
♎ The Reins and Loins the equal *Balance* weigh:
♏ The *Scorpion* o'er the Secret Parts doth ſway.
♐ The curious *Archer* doth the Thighs affect:
♑ So doth the *Goat* our bended Knees protect.
♒ The Legs unto *Aquarius'* Lot do fall:
♓ The *Fiſh* our active Feet their Portion call.

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Chronology of many remarkable Occurrences.

Years of Christ.		*Years since*
1066	William (the Norman) conquered England -	722
1185	Ireland conquered by the Engliſh - - - -	603
1299	**Windmills invented** - - - - - - - - -	489
1302	**The Mariner's Compaſs invented** - - - -	486
1304	Edward I. reduced Scotland - - - - -	484
1330	Gunpowder diſcovered by a Prieſt - - - -	458
1369	Wickliff firſt began the Reformation - - -	419
1441	Printing invented by a German - - - -	347
1492	Columbus diſcovered America - - - - -	296
1517	Luther wrote againſt Indulgencies - - - -	271
1521	Engraving on Wood, invented by Albert Durer	267
1535	Cannon firſt uſed - - - - - - - - -	253
1584	Virginia diſcovered by Sir Walter Raleigh -	204
1590	Teleſcopes invented by Janſen, a Dutchman -	198
1600	King Ch. II. born at Dumferling, in Scotl. Nov. 19	188
1601	The Earl of Eſſex beheaded - - - - -	187
1603	Queen Eliz. died, King James ſucceeded - -	185
1603	A great Plague in London, died 56,570 - -	185
1603	King James I. crown'd July 15, at Weſtminſter	185
1605	The Popiſh Gunpowder Plot, November 5 -	183
1606	Guy Faux executed in Parliament Yard - -	182
1608	Saturn's Satellites firſt diſcovered - - - -	180
1614	The New River brought to London - - -	174
1616	Shakeſpeare the Poet died - - - - - -	172
1625	A great Plague in London, died 34,517 - -	163
1625	King James I. died, K. Charles I. crown'd, Feb. 2	163
1632	A great Fire on London Bridge, Feb. 11 - -	156
1634	Old Parr died, aged 152, he lived in ten Reigns	153
1641	The Earl of Stafford beheaded, May 12 - -	147
1641	The cruel Iriſh Maſſacre, began October 23 -	147
1642	Edgehill and Brentford Fight - - - - -	146
1642	Sir Iſaac Newton born, December 25 - - -	146
1643	Exciſe-Office formed - - - - - - - -	145
1643	Newbury firſt and ſecond Fight - - - - -	145
1646	Belvoire Caſtle ſurrendered to the Parliament -	142
1651	The bloody Fight at Worceſter - - - -	137
1653	Oliver Cromwell made Protector, Dec. 12 -	135
1655	George Fox, the firſt of the Quakers - - -	133
1658	Spring Pocket-Watches, invented by Dr. Hook	130
1658	Oliver Cromwell died, Sept. 3 - - - - -	130
1660	King Charles II. reſtored, May 29 - - -	129

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1661	K. Charles II. crown'd, April 23, at Weſtminſter	127
1661	The Earl of Argyle beheaded, May 28	127
1661	A great Storm in London, Feb. 18	127
1662	The Royal Society inſtituted	126
1665	A great Plague in London, whereof died, 68,586	123
1665	Our Hamburgh Fleet taken by the Dutch	123
1666	The lamentable burning of London	122
1666	War declared againſt Denmark, Oct. 19	122
1667	The Dutch burn our Ships of War at Chatham	121
1667	Peace with Holland, France and Denmark	121
1667	The Royal Exchange built	121
1668	Peace proclaimed with Spain, Feb. 12	120
1669	The Royal Exchange firſt opened, September 28	119
1670	The Prince of Orange arrives at Whitehall	118
1671	A great Fire happened at Oxford, April 25	117
1672	War declared againſt the Dutch	116
1672	Halfpence and Farthings firſt coined, Aug. 16	116
1674	Peace with Holland, proclaimed Feb. 28	114
1677	Prince of Orange married to the Princeſs Mary	111
1678	The Popiſh Plot diſcovered	110
1679	The Habeas-Corpus Act paſſed	109
1680	A great Comet appeared in December	108
1682	Another great Comet appeared	106
1683	The Penny-Poſt Office eſtabliſhed	105
1683	Lord Ruſſel beheaded, July 21	105
1684	The great Froſt that held 13 Weeks	104
1685	K. Charles II. died, and K. James II. ſucceeded	103
1685	The Duke of Monmouth beheaded, July 15	103
1688	The ſeven Biſhops ſent to the Tower, June 8 The Pretender ſaid to be born, June 10	100
1688	Prince of Orange landed at Torbay, Nov. 4	100
1688	King James II. abdicated, Dec. 12	100
1689	King Will. and Queen Mary crowned, April 11	99
1692	Port Royal ſwallowed up by an Earthquake	96
1692	A great Earthquake in England, Sept. 8	96
1693	Hackney Coaches firſt licenſed	95
1693	Bank of England eſtabliſhed	95
1694	Lotteries firſt eſtabliſhed	94
1702	K. William died, and Q. Ann began her reign	86
1702	Queen Ann declared War againſt France	86
1703	A terrible great Wind, Nov. 26 and 27	85
1704	Gibraltar taken by Sir George Rook	84
1706	The Battle at Ramilies on Whit-Sunday	82
1707	England and Scotland united, May 1	81

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1708	The Pretender attempted to invade Great-Britain	80
1709	The French beat in the Woods of Blanglies -	79
1710	Great Riots and Disturbances in England - -	78
1713	Peace with France proclaimed, May 5 - - -	75
1714	Q. Ann died, and Geo. I. began to reign, Aug. 1	74
1715	A total Eclipse of the Sun, April 22 - - -	73
1715	The Rebellion in Scotland and Lancashire - -	73
1716	A great Frost and Snow, a Fair on the Thames -	72
1718	The first Appearance of the Northern Lights -	70
1719	A great fiery Meteor, March 19, at 8 at Night	69
1726	The great Sir Isaac Newton died, March 20 -	62
1727	K. George I. died June 11, K. Geo. II. procl. 15	61
1727	An Earthquake in several Parts of England - -	61
1739	War declared against Spain, Oct. 23 - - - -	49
1739	Forts of Porto Bello destroyed by Admiral Vernon	49
1743	The Battle of Dettingen, June 16 - - - - -	45
1744	Anson compleated his Voyage round the World	44
1744	War declared by Gr. B. against France, Mar. 31	44
1745	A Rebellion in Scotland - - - - - - - -	43
1746	The Scotch Rebels defeated at Culloden, Apr. 16	42
1748	A general Peace concluded, October 7 - - -	40
1750	Westminster Bridge finished, cost £.389,500 -	38
1752	The Date and Calendar altered - - - - -	36
1755	Lisbon destroyed by an Earthquake - - - -	33
1756	War declared against France - - - - - - -	32
1757	The Militia Act passed - - - - - - - -	31
1758	A large Comet appeared, foretold by Dr. Halley	30
1760	K. Geo. II. died, Oct. 25, K. Geo. III. procl. 26	28
1762	The American Philosophical Society instituted -	26
1762	A great Snow for 18 Days together, in Feb. -	26
1763	A general Peace proclaimed, March 22 - - -	25
1765	Otaheite in the South Seas discovered - - -	23
1766	Gibraltar almost destroyed by a Storm - - -	22
1770	Blackfriars Bridge finished, cost £.152,840 -	18
1772	A Revolution in Denmark - - - - - - -	16
1772	The Swedes forced to resign their Liberties to the K.	16
1773	The light Gold called in and recoined - - -	14
1775	War declared against North America, Aug. 23	13
1776	The Americans declare themselves independent	12
1778	The French sign a treaty with the Americans -	10
1778	War against France commenced - - - - -	10
1779	War against Spain begun - - - - - - -	9
1780	War against Holland commenced - - - - -	8
1783	A general Peace - - - - - - - -	

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TABLE of the Rising, Southing, and Setting of the Pleiades, or Seven Stars, for every 5th Day in the Year, of excellent Use to find the Hour of the Night.

Month Days	Rise h m	South h m	Sets h m	Month & Days	Rise h m	South h m	Sets h m
1	0 28	8 a 4	5 m 2	July 1	0m 58	8m 54	5 a 10
6	0 a 6	8 22	4 38	6	0 18	8 34	4 50
11	11m 44	8 0	4 16	11	11 A 57	8 13	4 29
16	11 23	7 39	3 55	16	11 37	7 53	4 9
21	10 52	7 18	3 34	21	11 17	7 33	3 49
26	10 40	6 56	3 12	26	10 57	7 13	3 29
1	10 17	6 33	2 49	August 1	10 33	6 49	3 5
6	9 56	6 12	2 28	6	10 14	6 30	2 46
11	9 36	5 52	2 8	11	9 55	6 11	2 27
16	9 17	5 33	1 49	16	9 36	5 52	2 8
21	8 58	5 14	1 30	21	9 17	5 33	1 49
26	8 39	4 55	1 11	26	8 59	5 15	1 31
1	8 28	4 44	1 0	September 1	8 37	4 53	1 9
6	8 10	4 26	0 42	6	8 19	4 35	0 51
11	7 52	4 8	0 24	11	8 1	4 17	0 33
16	7 33	3 49	0 5	16	7 43	3 59	0 15
21	7 15	3 31	11 a 47	21	7 26	3 42	11m 58
26	6 57	3 13	11 29	26	7 8	3 24	11 40
1	6 35	2 51	11 7	October 1	6 50	3 6	11 22
6	6 17	2 33	10 49	6	6 32	2 48	11 4
11	5 58	2 14	10 30	11	6 13	2 29	10 45
16	5 40	1 56	10 2	16	5 54	2 10	10 26
21	5 21	1 37	9 53	21	5 36	1 52	10 8
26	5 2	1 18	9 34	26	5 15	1 31	9 47
1	4 43	0 59	9 15	November 1	4 54	1 10	9 26
6	4 24	0 40	8 56	6	4 34	0 50	9 6
11	4 5	0 21	8 37	11	4 14	0 30	8 46
16	3 45	0 1	8 17	16	3 53	0 9	8 25
21	3 26	11m 42	7 58	21	3 28	11 a 44	8 0
26	2 56	11 22	7 38	26	3 7	11 23	7 39
1	2 41	10 57	7 13	December 1	2 46	11 2	7 18
6	2 21	10 37	6 53	6	2 24	10 40	6 56
11	2 1	10 17	6 33	11	2 2	10 18	6 34
16	1 42	9 58	6 14	16	1 40	9 56	6 12
21	1 19	9 35	5 51	21	1 18	9 34	5 50
26	0 59	9 15	5 1	26	0 56	9 12	5 28

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TABLE of some principal fixed Stars, with the Tim they rise, South and Set, either before or after the Seve Stars; as also their Colour, Magnitude, and Meridia Altitude, by which they may be readily discovered.

Co-lour	Alt.	Mag	Names of the Stars.	Rise h	m	South h	m	Sets h	m
♂	53	1	Aldebaran, or Bull's Eye	1 a	34	0 a	48	0 b	
♄♃	29	1	Left Foot of Orion	4	31	1	31	1	3
♃♄	36	2	Middle * in Orion's Belt	4	13	1	51	0	3
♂☿	45	1	Right Shoulder of Orion	3	23	2	8	0	
☿♂	21	1	Syrius, the great Dog	6	41	3	1	0	4
♂	43	2	Procyon, the little Dog	5	33	3	53	2 a	
♄☿	30	1	Heart of Hydra	8	39	5	41	2	4
♄♂	51	1	Regulus, Lion's Heart	7	26	6	21	5	1
☿	54	1	The Lion's Tail, Denab	8	42	7	54	7	
☿♂	28	1	Virgin's Spike	12	46	9	38	6	3
♂♃	58	1	Arcturus	10	47	10	30	10	1
♂	12	1	Antares, the Scorp. Heart	17	36	12	39	7	4
♄☿	46	2	Bright * of the Vulture	17	38	16	3	9 b	2
☿☿	6	1	Fomelhaut	11	14	19	11	10	3
♃☿	56	2	Head of Andromeda	10	42	10	10	2	5

THE brightest of the seven stars is of the third magnitude, and hath 61 degrees of meridian altitude and in colour participates of the ☽ and ☿.

The fixed stars all rise, South, and set about four minutes sooner every night than they did the night before this considered, the exact time of rising, Southing, and settin for any intermediate night, not herein noted, may be ver easily deduced from these tables, by inspection only.

To know the time of rising, Southing, and setting of an star in this table, for any day required; it is but considerin how many hours and minutes that star rises, Souths, or sets either before or after the seven stars on that day, and yo will have your desire; observing that in this *table*, a stand for *after*, and b for *before*.

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A Table shewing the Bearing, Distance, Longest Day, and Difference of the Meridians of most of the principal Cities in the World, from the famous City of LONDON.

Names of Places.	The Way or Point of bearing	Dist. in Miles	longest Day h	m	Differ. Merid. h	m
Alexandria in Egypt	SE. by E.	2169	14	00	2	42A
Amsterdam in Holland	E. by N.	266	16	40	0	28A
Athens in Greece	SE. by E.	1642	14	40	0	56A
Antwerp in Brabant	East fere	748	16	28	0	24A
Babylon	E. S. E.	2724	14	45	3	56A
Bethsaida	SE. by E.	2369	14	6	3	20A
Bermudas	W. S. W.	3409	14	10	4	56A
Calcutta in East-Indies	SE. by E.	5214	12	10	6	8A
Calais in France	E. by S.	86	16	25	0	9A
Constantinople	E. S. E.	1547	15	15	2	24A
Dublin in Ireland	NW. by W.	296	17	15	0	26A
Dantzick	E. N. E.	961	17	5	1	44A
Damascus	E. S. E.	2404	14	15	3	16A
Edinburgh in Scotland	North	328	17	40	0	0A
Ephesus	E. S. E.	1808	14	40	1	52A
Florence	S. E.	802	15	10	0	57A
Frankfort	East fere	448	16	15	0	47A
Hamburgh	E. N. E.	538	18	0	0	56A
Jerusalem	SE. by E.	2352	14	8	3	3A
Lisbon in Portugal	S. S. W.	985	14	45	1	0A
Middleburgh in Zealand	East	205	16	36	0	20A
Mentz in Germany	East	410	16	25	0	40A
Morocco in Barbary	S. S. W.	1449	14	0	0	28S
Mexico	W. by S.	6844	13	20	0	56A
Naples	SE. by E.	1051	14	50	0	16S
Paris in France	S. S. E.	215	15	57	0	20A
Prague in Bohemia	East fere	700	16	15	1	14A
Quinzal	E. by S.	7272	13	35	1	28A
Rome	SE. by E.	887	15	4	1	7A
Strasburgh	E. by S.	432	16	6	2	41A
Toledo in Spain	S. by W.	934	14	36	5	36A
Troy	E. S. E.	1605	15	00	2	26S
Venice	E. S. E.	424	15	28	1	3S
Seville	S. by W.	950	14	40	0	52A
York	North fere	150	17	5	0	8A
LONDON			16	24	0	0A

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PROEM.

SAY what's thy choice, inhabitant of earth?
Seek'ſt thou the torrent of unruly mirth;
Or would'ſt thou ſolitary chuſe to rove
Along the hills, or through the ſilent grove;
See nature ſpread her unexhauſted ſtore
In deſerts wild, or on the ſhelly ſhore?
Or in the warbling woodlands hear the notes
Of feather'd ſongſters from their lab'ring throats
See the ſwift lark on ruſſet pinions flies,
And ſinging as he ſoars, ſtill upward riſe;
While the gay linnet ſtrains his little bill,
And ſweetly carrols from the neighbouring hill?
Or would'ſt thou chuſe the much-frequented hall,
The courts of lux'ry, and the midnight ball,
Where riot does the thoughtleſs victim ſeize,
And opes the door to ev'ry foul diſeaſe;
On which remorſe, deſpair for ever wait?
Repentance comes at laſt, but comes too late.
Remote from theſe, another courſe I chuſe,
Joys more ſerene, and fitter for the muſe.
Hail ſweeteſt Solitude, to courts unknown,
And melancholy take me for thy own:
Not ſuch as leads the road to dull deſpair,
And points where poiſon, ſwords and halters are,
But of etherial form, which ſhews the way
To brighteſt ſcenes of joy, and endleſs day.
Wedded to thee, I'd ſeek ſome lonely cell,
Where meek-ey'd peace, and contemplation dwell
There would I lay me near the purling rill,
Or liſten to the clack of diſtant mill.
And let me in ſome high romantic tow'r,
With ivy clung, oft ſpend the ſolemn hour;
And hear the foaming ſea, with ſullen roar,
Laſhing againſt the rocks that bind the ſhore.
And oft when night reſumes her darkſome reign,
Let me in raptures 'mong the ſtarry train,
View the Erratics through their orbits fly,
And fetch down wiſdom even from the ſky.

Of

Of the ECLIPSES *for the preſent* YEAR, 1788.

UPON the ſtricteſt ſcrutiny between the two luminaries I find but two Eclipſes which will come within the circuit of the preſent year. The firſt is of the Sun, as follows. ☉ Eclipſed viſible, June the fourth.

Beginning at 7 h. 24 min. morn.
Middle - 8 h. 11 min.
End - - 9 h. 0 min.
Digits eclipſed 3° 59′ on ☉'s ſouthern limb. The moon makes the firſt impreſſion on the ſolar diſc at 96° from ☉'s vertex on the right hand.

The ſecond will be an inviſible Eclipſe of the Sun Nov. 27. ♂ at 6h 10′ in Long. 8ˢ 6° 16′, i. e. in ♐ 6° 16′, ☽'s Lat 9′ S. The Sun will be centrally eclipſed on the meridian at 6h 13 min P. M. in long. 93° ¼ Weſt, and lat. 30½ South. Of this laſt I will ſay no more than what I have formerly obſerved, viz. *Nil nocet Eclipſeis illis regionibus, in quibus non videtur.* And in regard to the other, the great Cardan obſerves that an eclipſe of the Sun in the ſecond decanate of ♊ denotes *piracies, murders* and *thefts.* What other prognoſticks may be made, falling in with what I have ſaid, or ſhall deliver in the courſe of this performance. I ſhall next proceed to ſome obſervations more immediately adapted to the preſent year.

Of the number 88, many conjectures have paſſed; and hiſtory alone muſt unravel the myſtery. The great *Regiomontanus,* in the year 1475, prophefied thus upon the year 1588.

Poſt mille expletos a partu Virginis Annos,
Et poſt quingentos rurſus ab orbe datos,
Octageſimus Octavus mirabilis Annus
Ingruet, is ſecum triſtia fata feret.
Si non hoc Anno totus malus occidet Orbis,
Si nec in nihilum terra fretumque ruent;
Cuncta tamen Mundi ſurſum ibunt atque retrorſum.
Imperia, et luctus undique grandis erit.

Which

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Which in (STOW's) Engliſh is thus.

When after Chriſt's birth there ſhall be expir'd
Of hundreds fifteen, years eighty and eight,
Then comes the time of danger to be fear'd,
Which all mankind with dolours ſhall affright.
For if the world in that year do not fall,
If ſea and land then periſh ne decay,
Yet empires, ſtates and kingdoms alter ſhall,
And man to eaſe himſelf ſhall have no way.

PROGNOSTICATIONS.

OF the tranſactions of this year, we find in hiſtory the following account, viz. Poland had three kings uſurping the title while the fourth was yet unburied. *Maximilian* was taken priſoner, his army overthrown, and many thouſands of men, women and children taken captives by the Tartars. *Sivetia* was all on fire with tumults, and loſt certain places of ſtrength to the Muſcovite. The *Muſcovite* himſelf ran mad. FREDERIC II. K. of Denmark died. *England* obtained a glorious victory over the *Spaniſh Armada*: the Spaniards loſt near 80 ſhips, and about 20,000 men. In *France* the Barricado of *Paris*; the flight of the king thence; the ſlaughter of the Duke of *Guiſe*, and his brother the Cardinal of *Lorrain*; the death of the Queen's mother, and the overthrow which the king of Navarre gave to Duke *Mercury*, with the poiſoning of the Prince of *Condé*, are part of the ſubject of that year's calamities, vide Gallo Belgicus, lib. 4. The good Biſhop of Rodez too, in his hiſtory of Henry the Great, ſays thus,——Now began the year 1588, which all judicial aſtrologers called the *Wonderful Year*, their prognoſtics were ſeconded by a number of terrible prodigies, which arrived through all Europe. In France were great earthquakes along the *Noire*, and likewiſe in *Normandy*. The ſea was ſix weeks together diſturbed with continual tempeſts, which ſeemed to confound both heaven and earth; in the air appeared divers phantaſms of fire; and on the 24th of January, *Paris* was covered with ſo horrible a darkneſs, that objects were ſcarce viſible at noon day. Thus far this Rev. Prelate.

For the year 1688, I refer to the hiſtory of thoſe times, obſerving only that the revolution makes that year to England a memorable era.

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A revolving century has now brought us to the year 1788, for the events of which let us wait in silent expectation. For my part I shall determine nothing upon the nature and efficacy of certain numbers, but only observe that the prophet Daniel dealeth much in them; and concludeth his book with this remark: *Blessed is he that waiteth, and cometh to the thousand, three hundred and five and thirty days.* And St. John in his Apocalypse (to determine the fulfilling of his prophecy) says thus, *Here is wisdom, let him that hath understanding count the number of the beast, for it is the number of a man, and his number is six hundred and threescore and six.*

I now proceed to a continuation of what I promised in my last. I observed in my last production, that the great Alpha and Omega, who governs the vast fabric of the universe, and knows every mutation thereof; he to whose all-seeing eye, ages past, ages present, and ages of ages to come, are all but one continued now, has been graciously pleased by various methods to communicate, from time to time, so much insight into what should be hereafter, (as to his divine wisdom seemed proper) to the children of the fallen Adam, in dreams or visions of the night. Some striking instances I have already collected from the best authors of prophane history; but not to be too prolix, at the same time to bring the matter home to every christian reader, I shall now confine myself to holy writ; and herein I observed that remarkable prediction of the fate of Abraham's seed, foretold in a dream for four hundred years to come. When the sun was down, a deep sleep fell upon Abraham, and lo a horror of great darkness fell upon him, vide Gen. 15. Again, when Jacob left his father's house and journeyed to Padan Aram, we find he lighted upon a certain place, and tarried there all night, and there he beheld in a dream, a ladder reaching up to heaven, and the angels of God ascending and descending on it, and above all stood the Ancient of Days, and promised him the land whereon he lay, his almighty protection whereever he went, an innumerable posterity; and that in his seed should all the families of the earth be blessed, vide Gen. 28. Joseph when yet a boy had two dreams, which you will find recorded in the 37th chap. of Gen. and which were verified in his life in a most amazing and extraordinary manner. In the 40th chap. of the said book we find Joseph in prison, interpreting

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terpreting two dreams to the chief butler and the chief baker of Pharaoh, and in three days his prediction was fulfilled. After this we find him interpreting two dreams to the mighty Pharoah himself, wherein, under the similitude of fat and lean kine, God, by the mouth of Joseph, was pleased to foretel seven years of plenty, and seven of famine; which we find in the sequel was the means of preserving alive, not only that nation, but his own family also. We afterwards find when the famine raged sore in the land, that his ancient father, journeying into Egypt to see his son before he died, God spake to him in the visions of the night, saying, *I will go down with thee into Egypt, and I will surely bring thee up again; and Joseph shall put his hand upon thine eyes*; vide Gen. chap. 46.

Proceed we next to the history of Solomon, the wisest of men. In Gibeon the Lord appeared to Solomon in a dream by night: And God said, ask what I shall give thee. Solomon's request was, give thy servant an understanding heart; and the saying pleased the Lord, and he added to this wisdom, riches and honour, vide 1 K. ch. 3. 1 Chr. ch. 1. In like manner he appears from the sacred text to have received divine instructions for the conduct of his future life: for we find that the Lord appeared unto Solomon a second time, as he had appeared unto him in Gibeon, and the Lord said, &c. vide 1 K. ch 9. Thus far have we an account from the incontestible evidence of everlasting truth of God's method of communicating his will to him who was wiser than all the sons of men, who spake three thousand proverbs, and his songs were a thousand and five, who spake of trees from the cedar which is in Lebanon, even unto the hyssop that springeth out of the wall: He spoke also of beasts, and of fowls, and of creeping things, and of fishes, and his fame was in all nations round about, vide ch. 4. Passing by those multitudes of passages in scripture, wherein the word of the Lord is said to have come to the prophets, not describing the manner how, where the scripture is silent, nor even so much as calling that a dream, which the scripture mentions under the name of a vision, but sticking literally to the text, come we now to Daniel. The character of this great man we find in the first chap. of that book is, that he was one of the captives of Judah; that he was also one of those to whom God gave knowledge and skill in all learning and

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and wisdom, (it immediately follows) and Daniel had understanding in all visions and dreams. The dreams of Nebuchadnezzar, big with the fate of future ages, could not the magicians, the astrologers, the sorcerers, nor the Chaldeans shew unto him; and even himself acknowledged, portentous as it was, the thing was gone from him; but the secret was revealed to Daniel in a night vision, and he shewed him the dream, and the interpretation thereof, insomuch that the monarch himself was obliged to acknowledge that his God was a God of gods, and a Lord of kings, and a revealer of secrets. In the fourth chap. of the said book we find him interpreting another dream to the great King, and faithfully relating the decree of the Most High, all which, says the word of truth, came upon the king Nebuchadnezzar at the end of twelve months as he walked in the palace of the kingdom of Babylon. For his own dreams, and how he understood by books the number of years, whereof the word of the Lord came to Jeremiah the prophet, that he would accomplish seventy years in the desolations of Jerusalem, I refer to the book itself; a book that has employed the pens of the learned, and the fulfilling of whose prophecies perhaps will not conclude till heaven and earth shall pass away, and time be swallowed up in eternity.

From what has been said, it appears manifest to every christian reader, that God, who at sundry times and in divers manners, spake in times past by the prophets unto the fathers, has not left himself without witness that an inspection into futurity is not entirely excluded from the sons of Adam. The book of knowledge is yet open, and in order to enable us to read aright therein, he has promised to give wisdom to the wise, and knowledge to them who seek understanding. For these the light shineth upon the dark path; for these the stars run their courses, seeing God made nothing in vain; and to his name be praise.

Observations upon the Four Quarters of the YEAR.

Of the WINTER QUARTER,

WHICH begins the 21st of Dec. 1787, at 8h 22m aft. and continues till Sol again approaches the cœlestial Aries, when 8 deg. of Taurus culminate, and 21 54 of Leo ascend; ☉, ☿, ♀ and ♄ are sub terra, Jupiter in ♊, and Mars in ♌, both retrogade, and the aspects of the

planets

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planets inclining upon the whole methinks to malevolence. Sol has just parted from an oppoſition to Jupiter, and Mars is haſtening to an oppoſition with Venus. *Aſpectus oppoſitionis ſignificat diſcordiam et contentationes*, ſays the wiſdom of the ancients, which the folly of the moderns may deſpiſe at pleaſure. ♄ in ♒ beſpeaks but little comfort to decrepid old age; and not at all to brighten the proſpect, we find at this ingreſs both him and Mars to be retrogade. If a ſpirit of diſcontent with its conſtant attendants of doubts and fears, murmur and evil diſpoſitions flies abroad at this time, I ſhall not wonder; many rumours will be ſpread abroad, and truth and falſhood ſo artfully intermixed, that conjecture is at a loſs to determine any thing, while puzzled reaſon waits for further data. May he who confounded the counſel of Ahitophel blaſt all wicked deſigns, or private conſpiracies againſt the peace and proſperity of this realm; and to ſecure ſo great a bleſſing, may we every one of us in our ſeveral ſtations, be humble to our God, loyal to our king, and true and faithful to each other.

The VERNAL or SPRING QUARTER.

THIS Quarter commences on the 19th day of March at 3 min. paſt 10 in the evening, when Sol enters the firſt ſcruple of Aries.

And ſhedding forth his beams of light,
Makes equal day and equal night.

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The face of the heavens being delineated at the commencement of this quarter, appears as in the preceding scheme, when the 13th deg. of Scorpio ascends in our horizon, and the 29th deg. of Leo culminates. Saturn has now left the water bearer, and plunged among the fishes, and has just parted from a Sextile with Venus, who only is in her own house. The positions of the other planets the figure itself will direct to.

The aspects of most considerable note in this quarter are as follow: □ ☉ ♂, □ ♄ ♀, □ ♂ ♃, all which are malevolent. There is in the course of this quarter likewise a friendly trine of ♄ and ♀, which, however it may affect other countries, seems alien to us. Upon the whole, I believe some remarkable catastrophe is perhaps not very remote. We at present have no prospect that I can conceive of harm from Hell by the way of Rome; but depend upon it both in the East and the West will be trouble enough. Of Spain it has been said, that the sun never sets upon that king's dominions, alluding to his claims in the Western World; but let not proud Spain boast too much. Many are the chances and changes of this transitory life; the lot is cast in the lap, but the disposal is from the Lord.

Of the SUMMER QUARTER.

This Quarter begins on Friday the 20th of June at eight in the evening, when the cœlestial charioteer makes entrance into the first scruple of the sign Cancer, at which time three degrees of ♏ culminate, and 27° 47′ of ♐ ascend. Sol applying to a conjunction with Jupiter in the seventh house, which is angular and potent, bespeaks good tidings; and indeed through the course of this Quarter, we have upon the whole very agreeable aspects. Saturn it is true is engaged in three oppositions, which may frustrate or at least postpone some salutary designs; but in my opinion, the most formidable is the square of Jupiter and Mars, which may very probably affect us: However, *A Jove Principium*, I humbly hope that he who so often endowed our armies with courage, will also bless our senators with wisdom, and in particular with unanimity, the want of which has been the cause of more woe to England than my narrow limits can describe. Little more need be said; what has been, will be, and there is no new thing under the sun: thus said the

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the wiſeſt of men. Great works are ſtill to be done, ſome of which I ſuppoſe are now begun; ancient prophecies ſtill wait their fulfilling. The trumpets have not yet all ſounded, neither are the vials of wrath as yet all poured out: however, let us, forming our wills to the divine pleaſure, ſay with good Hezekiah, Is it not good if peace and truth be in our days. I proceed to the hieroglyphic.

The Hieroglyphic for the preſent year I received from my good friend Nathan Ben Shaddai, a Jew, who when I was ſtudying the Hebrew language, was a great aſſiſtant to me therein; he has ſince travelled into many parts, and within the courſe of ſix months prior to my writing this, I received from him a letter in his own language, the purport of which is as follows:

To my friend Francis Moore, phyſician, and profeſſor of the cœleſtial Sciences, a diſciple of Jeſus; Nathan Ben Shaddai, a child of Abraham, and a worſhiper of the true God, after the manner of our forefathers, ſendeth greeting by the hand of his beloved friend and brother Iſſachar Toboſo.

In my return from Grand Cairo, whither I had been to merchandize, I found in the wall of one of my lodgings a ſculptur'd ſtone, which I am informed came from Tadmor; the workmanſhip whereof is much defaced. I however took a drawing thereof; which knowing thee to be curious in theſe things I have ſent it as a token of friendſhip. When the partition wall is taken down, may we meet together in the regions of peace; till then, *Farewell.*

Of the AUTUMNAL QUARTER.

THIS Quarter commences at the entrance of the Sun into Libra, when days and nights are once more upon an equal balance, and which will this year happen on the 22d day of September, at 42 min. after nine in the morning, at which time I find 28 deg. 41 min. of Gemini aſcending, and 23 deg. of Aquarius to culminate. The Moon in the 12th, a cadent houſe, ſeparating from a Sextile with ♀, and applying to a □ with the Sun, and a △ with Saturn, who is at this time retrogade, and likewiſe with Mars, and all the cœleſtial wanderers *ſub terra*, excepting ☽ and ♄, which to ſome parts of this terreſtial globe is perhaps not very promiſing, but to us I hope no ways hurtful.

But now to conclude. It was formerly obſerved by a learned hiſtorian of our nation, that prognoſtications, or the foretelling of future events relating to kingdoms and ſtates (from the conſideration of the ſtarry influences, and the configuration of thoſe glorious cœleſtial bodies) are like ſeeds ſcattered in the vaſt field of time; and if ſo, it is no wonder if ſome of them do appear, and be grown up to maturity: and if this be the caſe, as I believe we may venture to ſay it undoubtedly is, we may affirm with profound *Paracelſus*, that *Aſcendens conſtellatum multa revelat quærentibus magnalia naturæ*, i. e. Many ſtudious perſons ſearching into the ſecrets of nature, may by their good *genius* have myſteries revealed and diſcovered to them. And ſeeing there is an appointed time for every thing under the ſun, why ſhould any one preſume to deny that the heavens are a large expanded volume, in which, by the ſtudious ſons of art may be read many *grand mutations* (as effects in the boſoms of their cauſes, or events pre-notified by certain ſigns) long before they are brought into act here on earth; nor let us think that all this mighty volume is open only to the inhabitan of this terreſtrial globe, but even this orb of ours by its various configurations and aſpects, with the other cœleſtial bodies, ſhall reciprocally communicate in its turn certain intelligences to the inhabitants of the other planetary worlds. To view the harmony of the creation in this light; thu to ſee them dance their myſtic round; thus to liſten to the muſic of the ſpheres, is true wiſdom, and divine contemplation. And for the power of receiving theſe high enjoyments, to the great *Alpha* and *Omega*, the beginning and the end, the *firſt* and the *laſt*, be aſcribed *honour* and [illegible], *dominion* and *power*, *in ſæcula ſæculorum*. Amen.

FINIS.

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Merlinus Liberatus.

BEING AN

ALMANACK

For the Year of our Redemption,

1 7 8 8,

Being the *Biſſextile*, or *Leap Year*;

And from the Creation of the World, according to the beſt Hiſtory, 5735,

And the 99th of our Deliverance by *K. William*,

From Popery and Arbitrary Government;

But the 93d from the

Horrid, Popiſh, High-Church, Jacobite Plot.

Wherein is contained all Things fitting and uſeful for ſuch a Work; as an Ephemeris of the daily Motions of the Planets, with their various Configurations, Aſpects, Conjunctions, Lunations, Eclipſes, Aſtronomical, Aſtrological, Meteorological Obſervations, the Riſing and Setting of the Sun, Moon, Planets, and fixed Stars, illuſtrated with Tables of the Tides, Terms, and daily Equation of Clocks, Length and Break, Increaſe and Decreaſe of Days, Semidiurnal and Seminocturnal Arches for ſeveral Latitudes, a Chronology, Remarks on the Diviſions of the Heavens, with Judgments of the Eclipſes and Seaſons, handled according to the Rules of the Ptolomean Aſtrology, with many other Things relating to the Truth of Aſtrology. And will equally ſerve alſo for either *Parker*'s or *Saunders*'s Almanack, as it contains moſt of the uſeful Parts of thoſe other two Works, and *White*'s Ephemeris contains the reſt.

Calculated for the Meridian of LONDON.

By JOHN PARTRIDGE.

——*Etiam Mortuus loquitur.*

LONDON.

Printed for the **Company of STATIONERS;**

And Sold by *Robert Horsfield*, at their Hall, in *Ludgate Street*.

[Price ſtitched Nine Pence.]

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A Table of the Common Notes, and Moveable Feasts, for the Year of our Lord 1788.

Golden Number	3	Easter Sunday	March 23
Epact	22	Rogation Sunday	April 27
Dominical Letters	F E	Ascension Day	May 1
Cycle of the Sun	5	Whit Sunday	May 11
Roman Indiction	6	Trinity Sunday	May 18
Number of Direction	3	Sundays after Trinity	27
Sundays after Epiphany	1	Advent Sunday	Nov. 30
Septuagesima Sund. Jan.	20	Year of the Julian Per.	6493
Ash Wednesday, Feb.	6	Year of the Dionysian	112

A Table of the 12 Signs, 7 Planets, and Aspects.

♈	Aries, *Head and Face.*	♄	Saturn.
♉	Taurus, *Neck and Throat.*	♃	Jupiter.
♊	Gemini, *Arms and Shoulders.*	♂	Mars.
♋	Cancer, *Breast and Stomach.*	☉	Sol, or the Sun.
♌	Leo, *Heart and Back.*	♀	Venus.
♍	Virgo, *Bowels and Belly.*	☿	Mercury.
♎	Libra, *Reins and Loins.*	☽	Luna, the Moon.
♏	Scorpio, *Secret Members.*	☊	Dragon's Head.
♐	Sagittarius, *Hips and Thighs.*	☋	Dragon's Tail.
♑	Capricorn, *Knees and Hams.*	⊕	Part of Fortune.
♒	Aquarius, *Legs and Ancles.*	⊖	Tellus, or Earth.
♓	Pisces, *Feet and Toes.*		

☌ Conjunction, *In one Sign and Degree.*
✶ Sextile, *is 2 Signs, or 60 Degrees.*
□ Square or Quartile, *is 3 Signs, or 90 Degrees.*
△ Trine, *is 4 Signs, or 120 Degrees.*
☍ Opposition, *is 6 Signs, or 180 Degrees.*

♈ ♌ ♐	Hot and dry, Fiery	♉ ♍ ♑	Cold & dry, Earthy
♊ ♎ ♒	Hot and moist, Airy	♋ ♏ ♓	Cold & moist, Watery
♈ ♌ ♐ ♊ ♎ ♒	Diur. Mascul.	♉ ♍ ♑ ♋ ♏ ♓	Noct. Femin.
♈ ♋ ♎ ♑	Cardinal & Moveable.	♉ ♌ ♏ ♒	Fixed Signs
♊ ♍ ♐ ♓	Common Signs	♋ ♏ ♓	Fruitful Signs
♊ ♌ ♏	are Barren	♐ ♊ ♓	Bicorporeal

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Kings Names.	*Reigns began.*
William Conq	Oct. 14, 1066
William Rufus	Sept. 9, 1087
Henry 1. -	Aug. 2, 1100
Stephen - -	Dec. 1, 1135
Henry 2. Rosam.	Oct. 25, 1154
Richard 1. -	July 6, 1189
John - - -	April 6, 1199
Henry 3. -	Oct. 19, 1216
Edward 1. -	Nov. 16, 1272
Edward 2. -	July 7, 1307
Edward 3. -	Jan. 25, 1327
Ric. 2. W. Tyler	June 21, 1377
Henry 4. - -	Sept. 29, 1399
Henry 5. -	Mar. 20, 1413
Henry 6. - -	Aug. 31, 1422
Ed. 4. J. Shore	Mar. 4, 1461
Edward 5. -	April 9, 1483
Richard 3. -	June 22, 1483
Henry 7. - -	Aug. 22, 1485
Henry 8. -	Apr. 22, 1509
Edward 6. -	Jan. 28, 1547
Mary 1. - -	July 6, 1553
Elizabeth -	Nov. 17, 1558
James 1. - -	Mar. 24, 1603
Charles 1. -	Mar. 27, 1625
Charles 2. -	Jan. 30, 1649
James 2. - -	Feb. 6, 1685
Will. 3. & M. 2.	Feb. 13, 1689
Anne - - -	Mar. 8, 1702
George 1. -	Aug. 1, 1714
George 2. -	June 11, 1727
George 3. -	Oct. 25, 1760

The direct Lineal Descent of His Majesty K. George III.

Henry II. K. of *England*, had *Maud* mar. *Hen. the Lion*, D. of *Bavaria* and *Saxony*, had *Wil.* of *Lun.* mar. *Helena*, D. of *Worldemer*, K. of *Den.* had *Otho* D. of *Brunf.* and *Lunen.*

——— had ———

Albert the Great D. of *Brunf.*

——— had ———

Albert the Fat D. of *Brunf.*

——— had ———

Magnus D. of *Brunfwick*

——— had ———

Mag. Torquat. D. of *Bru.* & *Lun.*

——— had ———

Bernard D. of *Brun.* & *Lun.*

——— had ———

Frederick Duke of *Lunenb.*

——— had ———

Otho the Great D. of *Lunenb.*

——— had ———

Henry Duke of *Lunen.* had *Erneft* Duke of *Lunenb.* had *Wil.* D. of *Lunen. Zel.* had *Elizabeth*, mar. *Fred.* K. of *Bohemia*, had *Geo.* P. of *Callenbar* and D. of *Hanover*, had *Sophia*, mar. *Erneft Auguftus* Bifhop of *Ofnaburgh*, and Elector of *Brunfwick Lunenburgh*, had *George*, by the Grace of *God*, King of *Great-Britain*, &c. who had *George* II. who had *Fred.* Pr. of *Wales*, who had *George* III. his prefent Majefty, whom God preferve.

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A Table of the Moon's Age for every Day throughout the Year 1788, whereby, with the Help of the next General Tide Table, the Time of High Water at all the Places mentioned above it, are shewn by Inspection.

An Explanation of this and the following Table:

First find the Month on the Head of the Table, and the Day in the first Column on the left Hand, and in the Angle of meeting you have the Day of the Moon's Age, with which enter the following Table, and find your said Number in the left Hand Column, and over against it in the other Column is the Time of High Water at all the Places above mentioned, by Inspection.—*Example, Jan.* 14th I find the Moon to be 7 Days old, and over against 7 in the 1st Column I find 8 h. 36 m. in the 2d Column 7 h. 6 m. in the 3d; which are the Times of High Water at all those Places mentioned above in the 2d and 3d Columns. *Et sic de cæteris.*

Month Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	24	25	24	26	26	27	2×	N	2	3	4	5
2	25	26	25	27	27	28	29	2	3	4	5	6
3	26	27	26	28	28	29	N	2	4	5	6	7
4	27	28	27	29	29	N	2	3	5	6	7	8
5	28	29	28	30	30	2	3	4	6	7	8	9
6	29	30	29	N	2	3	4	5	7	8	9	10
7	30	N	N	2	3	4	5	6	8	9	10	11
8	N	2	2	3	4	5	6	7	9	10	11	12
9	2	3	3	4	5	6	7	8	10	11	12	13
10	3	4	4	5	6	7	8	9	11	12	13	14
11	4	5	5	6	7	8	9	10	12	13	14	15
12	5	6	6	7	8	9	10	11	13	14	15	16
13	6	7	7	8	9	10	11	12	14	15	F	F
14	7	8	8	9	10	11	12	13	15	F	17	18
15	8	9	9	10	11	12	13	14	F	17	18	19
16	9	10	10	11	12	13	14	15	17	18	19	20
17	10	11	11	12	13	14	15	16	18	19	20	21
18	11	12	12	13	14	F	F	17	19	20	21	22
19	12	13	13	14	F	16	17	18	20	21	22	23
20	13	14	F	F	16	17	18	19	21	22	23	24
21	14	F	16	16	17	18	19	20	22	23	24	25
22	15	16	17	17	18	19	20	21	23	24	25	26
23	F	17	18	18	19	20	21	22	24	25	26	27
24	17	18	19	19	20	21	22	23	25	26	27	28
25	18	19	20	20	21	22	23	24	26	27	28	29
26	19	20	21	21	22	23	24	25	27	28	29	30
27	20	21	22	22	23	24	25	26	28	29	30	N
28	21	22	23	23	24	25	26	27	29	30	N	2
29	22	23		24	25	26	27	28	30	N	2	3
30	23			25				29	N	2	3	4
31	24											5

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A general Tide-Table, shewing the Time of High Water at all the Places herein mentioned, *viz.*

☽'s A	Enter this Col. with the Moon's Age, and over against it you have the Time of High Water at the Places following.	*Lond. Tinm. Harl. Amster. Dort, Whitby, Galacia, Gasc West of Irel. Britain at Groin, Roterd. and Robin H. Bay.*		*Downs, Gravef. Ramk. Gurnf. Rumn. Thanet, Scilly half Tide, Senny H. Zenn at Blacken N. Cape, bet. Cal. and Dov.*		*Plym. Ramf. Sev. Humb. Foy, Torb. Newc. Falm. Dartm. Lizard, St. Maloes, at the Spurn, betw. Scilly and the Liz.*		*Hull, Lynn, Weym Fosd Antw. St. Dav. Holmes of Briſtol, Land, St. Paul's, Salcom, without Uſham, Water f. half Tide*		*Boſton, Briſtol, Fouln Starp. Lanion Alſbor. Weym. Key, Lime, before St Nicholas, Sedmouth in the Channel, Foy.*		*Dover, Harw. Bullein Tarm Road, Calice Road, St. John deLuca, S Forel, St. Helens, Coaſt of Norm. and Picardy*		*Porſf. Quimb. Southa. Leith. Iſle of Wight. Dunk. Kentiſh Knock, Beachy. Canado, C. of Fland. Spiers Dover Pier*		*Portl. Peter-port, Hague, Dubl. Harf. Lambay, Magnus, Sound, Comb without the Caſkets, Macneſs, Milford, Texel*	
		h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m
1	16	3	48	2	18	6	3	6	48	7	33	11	18	12	48	9	3
2	17	4	36	3	6	6	51	7	36	8	21	12	6	1	36	9	51
3	18	5	24	3	54	7	39	8	24	9	9	12	54	2	24	10	39
4	19	6	12	4	42	8	27	9	12	9	57	1	42	3	12	11	27
5	20	7	0	5	30	9	15	10	0	10	45	2	30	4	0	12	15
6	21	7	48	6	18	10	3	10	48	11	33	3	18	4	48	1	3
7	22	8	36	7	6	10	51	11	36	12	21	4	6	5	36	1	51
8	23	9	24	7	54	11	39	12	24	1	9	4	54	6	24	2	39
9	24	10	12	8	42	12	27	1	12	1	57	5	42	7	12	3	27
10	25	11	0	9	30	1	15	2	0	2	45	6	30	8	0	4	15
11	26	11	48	10	18	2	3	2	48	3	33	7	18	8	48	5	3
12	27	12	36	11	6	2	51	3	36	4	21	8	6	9	36	5	51
13	28	1	24	11	54	3	39	4	24	5	9	8	54	10	24	6	39
14	29	2	12	12	42	4	27	5	12	5	57	9	42	11	12	7	27
15	30	3	0	1	30	5	15	6	0	6	45	10	30	12	0	8	15

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ROYAL FAMILY, &c.

BIRTH-DAYS of the ROYAL FAMILY.

KING GEORGE III.	June 4, 1738	Prince Aug. Fred.	Jan. 27, 1773
Prince of Wales,	Aug. 12, 1762	Prince Adolph. Fred.	Feb. 24, 1774
Prince Frederick,	Aug. 16, 1765	Princeſs Mary,	April 25, - 1776
Prince Wm. Henry,	Aug. 21, 1765	Princeſs Sophia,	Nov. 3, - 1777
Prs. Cha. Aug. Mat.	Sept. 29, 1766	Princeſs Amelia,	Aug. 7, - 1783
Prince Edward,	Nov. 2, - 1767	Queen Charlotte,	May 19, 1744
Prs. Auguſta Sophia,	Nov. 8, 1768	Prs. Auguſta of Brun.	Aug. 11, 1737
Prs. Elizabeth,	May 22, - 1770	Duke of Glouceſter,	Nov. 25, 1743
Prince Erneſt Auguſtus,	June 5, 1771	Duke of Cumberland,	Nov. 7, 1745

SOVEREIGNS of EUROPE, their Acceſſion, &c.

Kingdoms, &c.	To whom ſubject.	When born.	Began to reign.
England, &c.	George III.	June 4, 1738	Oct. 25, 1760
France	Lewis XVI.	Aug. 23, 1754	May 10, 1774
Ruſſia	Catharine II.	May 2, 1729	July 9, 1762
Spain	Charles III.	Jan. 20, 1716	Aug. 10, 1759
Portugal	Mary	Dec. 7, 1734	Feb. 24, 1777
Pruſſia	Frederic IV.	Sept. 25, 1744	Aug. 17, 1786
Denmark & Norway	Chriſtian VII.	Jan. 29, 1749	Jan. 14, 1766
Sweden	Guſtavus III.	Jan. 24, 1746	Feb. 13, 1771
Germany	Joſeph	Mar. 13, 1741	Aug. 18, 1765
Poland	Staniſlaus III.	Jan. 17, 1732	Nov. 25, 1764
Holland	William V.	March 8, 1748	Oct. 11, 1751
Popedom	Pius VI.	Dec. 27, 1717	Feb. 18, 1775
Sardinia	Victor	June 26, 1726	Mar. 20, 1773
Ottoman Empire	Achmet IV.	Nov. 5, 1719	Jan. 21, 1774

The FULL WEIGHT of the COINS, with the LEAST WEIGHT allowed to paſs of the Gold Coin.

GOLD.	Wt. allowed. dwt.	gr.	Full Wt. dwt.	gr.
Guinea -	5	8	5	$9\frac{30}{89}$
Half Guinea,	2	16	2	$16\frac{64}{89}$
Quarter Guin.	1	8	1	$8\frac{32}{89}$

SILVER.	Full Wt. dwt.	gr.
A Crown, - - - -	19	$8\frac{16}{31}$
Half Crown, - -	9	$16\frac{8}{31}$
Shilling, - - -	3	$20\frac{28}{31}$
Six Pence, - - -	1	$22\frac{14}{31}$

According to the above proportions it appears, that the value of a *lb.* of ſilver is 62s. or 3l. 2s. and of a *lb.* of gold is $44\frac{1}{2}$ guineas, or 46l. 14s. 6d. Alſo that the *oz.* of ſilver is 5s. 2d. and the *oz.* of gold 3l. 17s. $10\frac{1}{2}$d. So that the value of the ſtandard gold is 15 times that of the ſilver, and 14th more.

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A TABLE of TERMS and RETURNS for 1788.

Hilary Term begins *January* 23, ends *February* 12.

Returns or Essoign Days.	Exc.	Ret.	App.	W.D.
In eight Days of St. *Hilary*, - - *January* 20	21	22	23	*Wednes.*
In fifteen Days of St. *Hilary*, - - - 27	28	29	30	*Wednes.*
On the Morrow of the Purif. of bl. V. *M. Feb.* 3	4	5	6	*Wednes.*
In eight Days of the Purif. of bl. V. *Mary*, 9	10	11	12	*Tuesd.*

Easter Term begins *April* 9, ends *May* 5.

In 15 Days of *Easter*, - - - - *April* 6	7	8	9	*Wednes.*
From the Day of *Easter* in 3 Weeks, - - 13	14	15	16	*Wednes.*
From the Day of *Easter* in 1 Month, - - 20	21	22	23	*Wednes.*
From the Day of *Easter* in 5 Weeks, - 27	28	29	30	*Wednes.*
On the Morrow of the *Ascension*, - - *May* 2	3	4	5	*Monday*

Trinity Term begins *May* 23, ends *June* 11.

On the Morrow of the holy *Trinity*, *May* 19	20	21	22	*Friday.*
In eight Days of the holy *Trinity*, - - - 25	26	27	28	*Wednes.*
In fifteen Days of the holy *Trinity* - - *J.* 1	2	3	4	*Wednes.*
From the Day of the holy *Trinity* in 3 Weeks, 8	9	10	11	*Wednes.*

Michaelmas Term begins *Nov.* 6, ends *Nov.* 28.

On the Morrow of *All Souls*, - - - *Nov.* 3	4	5	6	*Thurs.*
On the Morrow of St. *Martin*, - - - - 12	13	14	15	*Saturd.*
In eight Days of St. *Martin*, - - - - - 18	19	20	21	*Friday.*
In fifteen Days of St. *Martin*, - - - - - 25	26	27	28	*Friday.*

N. B. No Sittings in *Westminster-Hall* on the 2d of *February*, *Ascension Day*, and *Midsummer Day*.

The Exchequer opens Eight Days before any Term begins, except Trinity, before which it opens but Four Days.

Note, That the first and last Days of every Term, are the first and last Days of Appearance.

OXFORD and CAMBRIDGE TERMS.

OXFORD TERMS.

Lent Term - - begins *January* 14, - - ends *March* 15.
Easter Term - begins *April* 2, - - - ends *May* 8.
Trinity Term - begins *May* 21, - - - ends *July* 12.
Michaelmas Term, begins *October* 10 - - - ends *Dec.* 17.
The Act is *July* 7.

CAMBRIDGE TERMS.

Lent Term - - begins *January* 13, - - ends *March* 14.
Easter Term - - begins *April* 2, - - - ends *July* 4.
Michaelmas Term begins *October* 10, - - ends *Dec.* 16.
The Commencement will be *July* 1.

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Eternal Pow'r who rul'ſt the Earth,
And all this wond'rous Frame;
Whoſe Order gave Creation Birth,
Whoſe Pow'r ſuſtains the ſame;
Sole Arbiter of all; to thee
Honour and Praiſe aſcribed be.

M D	♄ ♒	♃ ♓	☽ ♌
1	26	19	☍
6	26	19	25
11	27	18	25
16	27	18	25
21	28	17	24
26	28	17	24

M D	W ☽	Sundays and Remark. Days.	☉ °	♑ ′	☽'s Lo °	′	♂ ♎	♀ ♑	♅ ☍	Aſpects and Weather.
1	T	Circumciſion	10	♑ 51	24	♎ 8	20	29	19	☌ ♃ ♅
2	W		11	53	6	♏ 35	20	♒	20	*Cloudy diſmal*
3	T	Sun riſes 8h 4m.	12	54	18	46	19	2	22	*weather, with*
4	F		13	55	0	☍ 46	19	3	23	*winds, rain,*
5	S	Old Chriſt. day	14	56	12	39	18	4	24	*or ſnow.*
6	F	**Epiphany**	15	57	24	27	18	5	25	✱ ♄ ♅
7	M	Plough Monday	16	59	6	♑ 14	18	7	27	☌ ☉ ♂
8	T	Lucian	18	0	18	2	17	8	28	*Inclining to*
9	W		19	1	29	54	17	9	29	*froſt.*
10	T	Sun ſet 4h. 2m.	20	2	11	♒ 50	16	10	♑	
11	F		21	3	23	53	16	12	2	*Seaſonable.*
12	S	Old New Yrs. d.	22	5	6	♓ 5	16	13	4	
13	F	**1 S. after Epiph.**	23	6	18	28	15	14	5	Hil. C. T. b.
14	M	Oxf. T. beg.	24	7	1	♈ 5	15	15	7	☌ ♂ ♀
15	T		25	8	13	59	14	17	8	△ ♃ ♀
16	W	Sunriſes 7h. 51m	26	9	27	12	14	18	10	*Winds with*
17	T	Old Twelfth d.	27	10	10	♉ 47	14	19	11	*ſnow or*
18	F	**Q. Ch. b. d. kept**	28	11	24	45	13	20	13	Priſc. ☌ ♂ ♅
19	S		29	12	9	♊ 7	13	22	14	*ſleet.*
20	F	**Septuageſ. Sun.**	0	♒ 13	23	50	13	23	16	Fabian
21	M	Agnes	1	14	8	♋ 51	12	24	17	
22	T	Vincent	2	15	24	0	12	25	19	*Rain or ſnow.*
23	W	Hil. Term beg	3	16	9	♌ 10	12	27	20	☐ ♄ ♀
24	T		4	17	24	10	11	28	22	
25	F	**Conv. St. Paul**	5	18	8	♍ 50	11	29	23	*Windy.*
26	S		6	19	23	6	11	♓	25	
27	F	**Sexageſ. Sund.**	7	20	6	♎ 52	11	2	27	Pr. Aug. Fr. b.
28	M		8	21	20	10	10	3	28	
29	T	Sun ſets 4h. 29m	9	22	3	♍ 0	10	4	♒	*Variable.*
30	W	K. Char. I. mart.	10	23	15	28	10	5	1	
31	T		11	24	27	38	10	7	3	

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M D	Jupiter South		Venus South	
1	10	24	1	19
6	10	1	1	23
11	9	37	1	26
16	9	14	1	30
21	8	50	1	34
26	8	26	1	37

New Moon 8th Day at Noon.
First Quarter 16th Day at 10 Morning.
Full Moon 23d Day at 2 Morning.
Last Quarter 30th Day at 1 Morning.
1st Day ♄ South 3 6, ♂ 12 38, ♅ 22 26
16th D ♄ South 2 4, ♂ 11 8, ♅ 22 51

M D	Lunar Aspects. ☉	♄	♃	♂	♀	♅	Clock fast	Moon South	☽ rises & sets	Observations.
1							4 0	6m25	1m19	In cases any way
2	✱						4 28	7 11	2 30	doubtful it is by far
3		□		△			4 56	7 58	3 39	the wisest way to be
4					✱		5 24	8 46	4 42	very moderate in our
5			♌				5 51	9 34	5 40	conjectures, and ex
F		△				♑	6 18	10 23	6 32	ceedingly sparing in
7				♌		♒	6 44	11 12	7 15	the delivery of them
8	♑						7 10	11 59	☽ sets	Certain truths, like
9	♒				♑		7 35	0a45	5a23	those of the Gospel,
10			△		♒		7 59	1 29	6 30	may be spoken with
11		♑				✱	8 24	2 12	7 39	the boldness of an
12		♒	□	△			8 47	2 54	8 47	apostle, ready to seal
F	✱						9 10	3 36	9 57	the affirmation with
14						□	9 32	4 19	11 8	his blood. But it is
15	□		✱	□	✱		9 53	5 5	morn	not so with the As
16		✱				△	10 14	5 54	0 22	trologer, for howe-
17				✱	□		10 34	6 47	1 39	ver true the art is,
18	△	□					10 53	7 44	2 54	even to the highest
19			♑		△		11 12	8 45	4 10	degree of infallibi
F		△	♓				11 30	9 48	5 16	lity, yet it is not so
21				♑		♒	11 47	10 51	6 11	with the artist, for
22	♒			♌			12 3	11 52	6 53	however deeply he
23	♓		✱				12 18	morn	☽ rise	may be versed in the
24		♒			♒		12 33	0 49	6a50	mystical science, or
25			□	✱			12 47	1 42	8 13	how penetrating so-
26						△	13 0	2 33	9 34	ever he may have
F	△		△	□			13 12	3 22	10 50	been into the arcana
28		△				□	13 23	4 9	morn	of nature; yet it
29	□			△	△		13 34	4 57	0 5	must be acknowledg-
30							13 44	5 44	1 16	ed that, *Astra regunt*
31		□			□	✱	13 53	6 33	2 25	*homines*

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Old Ocean ſtretch'd from Shore to Shore,
Subſervient to thy Will,
At thy Command his Billows roar,
At thy Command are ſtill;
While Ships along the liquid Plain
Plough deep, the deſtin'd Port to gain.

M D	♄ ♒	♃ ♊	☽ ♑
1	29	17	♐
6	♓	17	24
11	0	17	23
16	1	17	23
21	2	17	23
26	2	17	22

M D	W D	Sundays and Remark. Days.	☉ °	♒ ′	☽'s Lo °	′	♂ ♋	♀ ♓	☿ ♒	Aſpects and Weather.
1	F		12	24	9	♐ 35	10	8	5	*Sharp air.*
2	S	Purification	13	25	21	24	9	9	6	CandlemasD
3	F	Quinquageſ. S.	14	26	3	♍ 9	9	10	8	Blaſe
4	M		15	27	14	56	9	12	10	
5	T	Shrove Tueſday	16	28	26	47	9	13	11	Agath △ ☉ ♃
6	W	Aſh-Wedneſday	17	29	8	♒ 45	9	14	13	*Moderate for*
7	T		18	29	20	52	9	15	15	□ ♃ ♀, △ ♃ ♀
8	F	Sun riſes 7. 15.	19	30	3	♓ 8	9	16	17	*the ſe ſon.*
9	S		20	31	15	35	9	18	18	
10	F	Quadrageſ. S.	21	31	28	12	8	19	20	♂ ☉ ☿
11	M		22	32	11	♈ 1	8	20	22	
12	T	Hil. Term ends	23	33	24	3	8	21	24	
13	W	Ember Week	24	33	7	♉ 19	8	23	26	Old Candlem
14	T	Valentine	25	34	20	50	8	24	27	*Miſts and cold.*
15	F		26	34	4	♊ 38	D	25	29	♂ ♄ ☿
16	S	Sun ſets 5. 0.	27	35	18	43	8	26	♓	
17	F	2 Sund. in Lent	28	35	3	♋ 5	8	28	3	*Windy.*
18	M		29	36	17	42	8	29	5	
19	T	Sun riſes 6. 54.	0	♓ 36	2	♌ 30	8	♈	7	♂ ☉ ♄
20	W		1	37	17	21	8	1	9	△ ♂ ☿
21	T		2	37	2	♍ 9	9	2	10	
22	F	Sun ſets 5. 11.	3	37	16	44	9	4	12	*Wet.*
23	S		4	37	0	♎ 58	9	5	14	
24	F	3 Sund. in Lent	St. Matthias. Pr. Adol. Fr. b.							△ ♃ ☿
25	M		6	38	28	10	9	7	18	□ ♂ ♀
26	T	Sun riſes 6. 41.	7	38	11	♍ 6	9	9	20	△ ☉ ♂
27	W		8	38	23	37	9	10	22	
28	T	Sun ſets 5. 23.	9	38	5	♐ 50	9	11	23	*Stormy.*
29	F		10	39	17	48	9	12	25	

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M D	Jupiter South		Venus South	
1	8	1	1	40
6	7	42	1	43
11	7	23	1	46
16	7	4	1	49
21	6	44	1	52
26	6	25	1	55

New Moon 7th Day at 7 Morning.
First Quarter 14th Day at 9 Night.
Full Moon 21st Day at 1 Afternoon.
Last Quarter 28th Day at 8 Night.
1st Day ♄ South 1 8, ♂ 9 41, ♅ 23 34.
16th D. ♄ South 0 15, ♂ 8 37, ♅ 0 16.

M D	Lunar Aspects. ☉	♄	♃	♂	♀	♅	Clock fast.	Moon South	☽ rise & sets	Observations.
1	✱		8				14 1	7 M 22	3 m 27	*homines sed Deus ustra*
2		✱					14 9	8 11	4 21	*regit.* True it is
F				8	✱		14 15	9 0	5 6	that the most acute
4							14 21	9 48	5 42	are but dull, and the
5							14 26	10 35	6 13	piercing eye dim,
6	♂		△			♂	14 30	11 20	6 36	when we look into
7	19	♂				10	14 34	0 a 4	☽ sets	the hidden counsels
8		18		△			14 37	0 47	6 a 30	of the Most High.
9			□		♂		14 38	1 30	7 42	And justly did ho-
F				□	4		14 39	2 14	8 54	ly Job teach humili-
11	✱		✱			✱	14 40	2 59	10 6	ty to the most know-
12		✱					14 39	3 46	11 20	ing, when he said,
13				✱			14 38	4 37	morn	*Canst thou bind the*
14	□	□			✱	□	14 35	5 32	0 36	*sweet influence of the*
15			♂				14 32	6 29	1 49	*Pleiades, or loose the*
16	△	△	21		□	△	14 29	7 30	2 57	*bands of Orion? canst*
F				♂			14 24	8 31	3 57	*thou bring forth Ma-*
18				9	△		14 19	9 31	4 44	*zaroth in his season,*
19			✱				14 13	10 29	5 21	*or canst thou guide*
20		8					14 7	11 24	5 51	*Arcturus with his*
21	8			✱		8	14 0	morn	☽ rise	*sons? Knowest thou*
22	1		□				13 52	0 17	7 a 7	*the ordinances of hea-*
23				□	8		13 43	1 8	8 23	*ven? canst thou set*
F			△				13 34	1 57	9 41	*the dominion thereof*
25	△	△		△			13 25	2 47	10 56	*in the earth?*
26						△	13 15	3 36	morn	From the above
27		□					13 4	4 26	0 8	quotations the fol-
28	□		8		△		12 52	5 16	1 15	lowing remarks are
29						□	12 14	6 6	2 13	obvious, *viz.* First,

that

March hath XXXI Days.

God ſpeaks, and lo! without Controul
The Tempeſt howls around;
Fierce Lightnings flaſh from Pole to Pole,
And Thunder ſhakes the Ground:
Again he ſpeaks, and not a Ruſh
Is ſhak'd, and all at once is huſh.

M D	♄ ♓	♅ ♊	☽ ♌
1	3	17	♐
6	3	18	22
11	4	18	22
16	4	19	21
21	5	19	21
26	6	20	21

M	W D	Sundays and Remark. Days.	☉ ♈ ° ′	☽'s Lo. ♑ ° ′	♂ ♎	♀ ♈	☿ ♓	Aſpects and Weather.
1	S	David.	11 ♓ 39	29 ♐ 38	10	13	27	*Windy.*
2	D	**Midlent Sund.**	12 39	11 ♑ 24	10	15	29	Chad.
3	M		13 39	23 13	10	16	♈	
4	T	Sun riſes 6. 27	14 39	5 ♒ 8	10	17	2	✶ ♃ ♀
5	W	Sun ſets 5. 35.	15 39	17 13	10	18	3	*Sharp air*
6	T		16 39	29 30	11	20	4	
7	F	Perpetua	17 39	12 ♓ 1	11	21	6	□ ☉ ♃
8	S		18 39	24 46	11	22	7	
9	D	**5 Sund. in Lent.**	19 39	7 ♈ 43	11	23	8	*Changeable*
10	M	Sun riſes 6. 15.	20 38	20 53	11	24	9	
11	T		21 38	4 ♉ 14	12	26	10	*and*
12	W	Gregory	22 38	17 45	12	27	10	
13	T		23 38	1 ♊ 25	12	28	11	*uncertain.*
14	F	Camb. T. ends	24 37	15 15	12	29	11	
15	S	Oxf. T. ends	25 37	29 14	13	♉	11	
16	D	**Palm Sunday**	26 37	13 ♋ 23	13	2	12	*Moiſt.*
17	M	St. Patrick	27 36	27 40	13	3	♑	
18	T	Edw. K. W. S.	28 36	12 ♌ 2	14	4	12	✶ ♄ ♀
19	W		29 35	26 27	14	5	12	
20	T	Maund. Thurſ.	0 ♈ 35	10 ♍ 49	14	6	11	*Temperate.*
21	F	**Good Friday**	1 34	25 2	15	8	11	Benedict
22	S	Sun ſets 6. 9.	2 33	9 ♎ 0	15	9	10	
23	D	**Eaſter-Day**	3 33	32 39	15	10	9	*Changeable.*
24	M	**Eaſter-Monday**	4 32	5 ♍ 56	16	11	8	
25	T	**Eaſter-Tueſday**	5 31	18 42	16	12	7	**Lady-Day.**
26	W		6 31	1 ♐ 22	16	13	7	☌ ☉ ☿
27	T	Sun riſes 5. 41.	7 30	13 36	17	15	6	
28	F	Sun ſets 6. 21.	8 29	25 37	17	16	5	
29	S		9 28	7 ♑ 29	17	17	4	✶ ♂ ♀
30	D	**Low Sunday**	10 27	19 17	18	18	3	*Wet and cold.*
31	M		11 26	1 ♒ 8	18	19	2	

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M D	Jupiter South		Venus South	
1	6	11	1	58
6	5	55	2	2
11	5	39	2	6
16	5	23	2	10
21	5	7	2	15
26	4	51	2	19

New Moon 7th Day at Midnight.
First Quarter 15th Day at 5 Morning.
Full Moon 21st Day at Midnight.
Last Quarter 29th Day at 4 Afternoon.
1st Day ♄ South 23 24, ♂ 7 49, ☿ 0 56.
16th D. ♄ South 22 37, ♂ 7 14, ☿ 0.50.

M D	Lunar Aspects. ☉	♄	♅	♂	♀	☿	Clock fast	Moon South	☽ rise & sets	Observations.
1		*		8			12 28	0m56	3 m 2	that the shrewdest re-
E	*				□		12 16	7 45	3 42	marks of those whose
3						*	12 2	8 32	4 15	judgment is deepest,
4							11 49	9 18	4 40	cannot always be
5			△		*		11 35	10 3	5 2	depended upon; al-
6		6		△			11 20	10 47	5 25	though the stars may
7	6	7	□				11 5	11 31	☽ sets	influence the actions
8	12						10 50	0a15	6a43	of men, yet there is
E			*	□		6	10 35	1 0	7 57	an uncontroulable
10		*			6	0	10 19	1 48	9 13	Being above all, who
11				*	7		10 2	2 39	10 29	while he ruleth the
12	*						9 46	3 33	11 44	stars, and guideth
13		□				*	9 29	4 30	morn	them with his hand,
14	□		6				9 12	5 29	0 55	in such positions that
15		□	5	6	*	□	8 54	6 28	1 56	they may give wis-
E				23			8 37	7 26	2 44	dom to the wise, and
17	△				□		8 19	8 24	3 23	knowledge to them
18			*			△	8 1	9 19	3 56	that know under-
19		8			△		7 42	10 11	4 23	standing, cannot be
20			□	*			7 24	11 2	4 45	by any means bound
21	8						7 6	11 52	☽ r se	either by his minis-
22	12		△	□		8	6 47	morn	7a22	tering spirits, his
E							6 28	0 42	8 39	cœlestial messengers
24		△		△	8		6 10	1 32	9 55	the stars, or even his
25							5 51	2 23	11 4	servants the pro-
26	△	□				△	5 32	3 14	morn	phets, to reveal ma-
27			8				5 3	4 5	0 7	ny of the deep and
28		*				□	4 55	4 55	1 0	secret things known
29	□			8	△		4 36	5 44	1 44	only to him from
E							4 18	6 33	2 21	the foundation of
31	*					*	3 59	7 20	2 50	the

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April hath XXX Days.

M	♄	♃	☽
D	♓	♊	♋
1	6	21	☌
6	7	21	21
11	7	22	20
16	8	23	20
21	8	24	9
26	9	25	19

But we (all gracious, good, and wise)
Are placed by thy Care,
In happier Climes, and milder Skies,
And breathe ſerener Air;
Seated where no Volcanoes riſe,
Nor fierce Tornadoes rend the Skies.

M	W	Sundays and	☉	☽'s Lo	☿	♀	♂	Aſpects and
D	D	Remark. Days.	° ′	° ′	♋	♉	♈	Weather.
1	T		12 ♈ 25	13 ♎ 6	18	21	2	*Cold and wet*
2	W	Ox.&C.T. beg.	13 24	25 15	19	22	1	*with wind at*
3	T	Richard	14 23	7 ♐ 40	19	23	1	*the commence-*
4	F	St. Ambroſe	15 22	20 22	20	24	0	*ment of the*
5	S	Old Lady-day	16 21	3 ♈ 23	20	25	☌	*month; then*
6	E	2 Sund.aft.Eaſt.	17 20	16 40	20	26	30	*ſomewhat*
7	M		18 19	0 ♉ 13	21	28	29	*warmer.*
8	T	Sun riſes 5. 18.	19 18	13 59	21	29	29	*Windy with*
9	W	Eaſter T. begins	20 17	27 54	22	♊	D	✱ ☉ ♅
10	T		21 16	11 ♊ 55	22	1	29	□ ☉ ♂
11	F	Sun ſets 6. 48.	22 14	26 0	23	2	29	
12	S		23 13	10 ♋ 8	23	3	♈	
13	E	3 Sun. aft. Eaſt.	24 12	24 16	23	5	0	*ſome wet*
14	M		25 10	8 ♌ 24	24	6	0	*about this time*
15	T	Sun riſes 5. 5.	26 9	22 29	24	7	1	□ ♄ ♀
16	W		27 8	6 ♍ 31	25	8	1	*Now expect*
17	T	Sun ſets 6. 59.	28 5	20 26	25	9	2	*ſome briſk*
18	F		29 5	4 ♎ 11	26	10	3	*gales and fly-*
19	S	Alphege	0 ♉ 3	17 44	26	11	3	*ing ſhowers.*
20	E	4 Sund.aft. Eaſt	1 1	1 ♍ 2	26	13	4	
21	M		2 0	14 2	27	14	5	*Temperate, but*
22	T	Sun riſes 4. 51.	2 58	26 45	27	15	6	*concludes*
23	W	St. George	3 56	9 ♐ 11	28	16	7	*with wind*
24	T		4 55	21 23	28	17	8	
25	F	St. Mark	5 53	3 ♑ 23	29	18	9	Prs. Mary b.
26	S		6 51	15 16	29	19	10	
27	E	Rogat. Sund.	7 49	27 5	♌	20	11	*and rain.*
28	M		8 48	8 ♒ 57	0	21	12	✱ ☉ ♄
29	T	Sun ſets 7. 21.	9 46	20 56	1	23	14	
30	W		10 44	3 ♓ 7	1	24	15	

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M D	Jupiter South		Venus South	
1	4	33	2	25
6	4	18	2	31
11	4	3	2	37
16	3	49	2	43
21	3	34	2	49
26	3	19	2	54

New Moon 6th Day at 1 Afternoon.
First Quarter 13th Day at Noon.
Full Moon 20th Day at Noon.
Last Quarter 28th Day at Noon.
1st Day ♄ South 21 46, ♂ 6 35, ☿ 23 15
16th D. ♄ South 20 56, ♂ 6 6, ☿ 22 26

M D	Lunar Aspects. ☉	♄	♅	♂	♀	☿	Clock fast	Moon South	☽ rise & sets.	Observations.
1			△		□		3 41	8m 4	3m13	the world. If any
2		♂					3 23	8 49	3 35	one doubts whether
3		♃1		△			3 5	9 33	3 54	the ministring spi-
4			□		*	♂	2 47	10 17	4 13	rits, and the prophets
5						☿	2 29	11 2	4 30	themselves, may no
E	♂		*	□			2 12	11 50	☽ sets	be the authors of de-
7	☿	*					1 55	0a41	8a22	ception, let them
8				*			1 38	1 35	9 40	read the story of A-
9		□			♂	*	1 21	2 32	10 52	hab, II. Chron. c.
10	*		♂		♃		1 5	3 31	11 51	18.—*The Lord said*
11		△	♄7			□	0 49	4 31	morn	*who shall entice A-*
12				♂			0 33	5 30	0 50	*hab king of Israel*
E	□			☉2	*	△	0 17	6 27	1 33	*that he may go up and*
14							0 2	7 21	2 6	*fall at Ramoth-gile-*
15	△		*				0a13	8 13	2 34	*ad? And one spake*
16		♃			□		0 28	9 3	2 57	*saying after this man*
17			□	*		♃	● 42	9 52	3 19	*ner, and another say-*
18					△		0 56	10 40	3 39	*ing after that man*
19			△	□			1 9	11 29	4 0	*ner. Then there came*
E	♃	△					1 22	morn	☽ rise	*out a spirit and stood*
21	☉						1 35	0 20	8a53	*before the Lord and*
22		□		△		△	1 47	1 11	9 58	*said, I will entice*
23					♃		1 59	2 2	10 56	*him, I will go out and*
24			♃				2 20	2 53	11 44	*be a lying spirit in*
25	△	*				□	2 21	3 43	morn	*the mouth of all his*
26							2 31	4 32	0 24	*prophets. And the*
E				♃			2 41	5 19	0 55	*Lord said thou shalt*
28	□					*	2 50	6 5	1 22	*entice him, and also*
29			△		△		2 58	6 49	1 43	*prevail.*
30	*	♂					3 6	7 32	2 2	

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May hath XXXI Days.

Nor yet where Pagan Slaves we see
In some benighted Coast,
To Stocks and Stones to bend the Knee;
A happier Realm we boast,
Where Revelation points the Way
To boundless Joys, and endless Day.

M D	♄ ♓	♃ ♊	☽ ♌
1	9	26	♐
6	9	27	19
11	10	28	18
16	10	29	18
21	10	♋	18
26	10	1	17

M D	W D	Sundays and Remark. Days.	☉ °	♉ ′	☽'s Lo °	′	♂ ♌	♀ ♊	☿ ♈	Aspects and Weather.
1	T	Ascension Day	11	8 42	15 ♓	35	2	25	16	St. Phil. & Ja.
2	F		12	40	28	22	2	26	18	☌ ♃ ♀
3	S	Inventio Crucis	13	38	11 ♈	31	3	27	19	*Wet and*
4	E	S. after Ascen.	14	36	25	2	3	28	20	*windy at the*
5	M	East. T. ends	15	34	8 ♉	52	4	29	22	*beginning of*
6	T	John, E. A. P. L.	16	32	23	1	4	♋	23	*the month.*
7	W		17	30	7 ♊	22	5	1	25	
8	T	Oxford T. ends	18	28	21	50	5	2	26	✱ ♃ ☿
9	F		19	26	6 ♋	20	6	4	28	
10	S	Sun rises 4. 20.	20	24	20	47	6	5	♉	*Seasonable*
11	E	Whit-Sunday	21	22	5 ♌	7	7	6	1	*weather,*
12	M	Whit-Monday	22	20	19	18	7	7	3	Old May Day
13	T	Whit-Tuesday	23	18	3 ♍	18	8	8	5	*and continues*
14	W	Ember Week.	24	15	17	7	8	9	6	*to the*
15	T		25	13	0 ♎	42	9	10	8	△ ♄ ♀, □ ♂ ☿
16	F	Sun rises 4. 11.	26	11	14	3	9	11	10	✱ ♄ ☿
17	S	Sun sets 7. 50.	27	9	27	11	10	12	12	✱ ♀ ☿
18	E	Trinity Sunday	28	6	10 ♏	5	10	13	14	*full moon,*
19	M	Q. Charl. b.	29	4	22	45	11	14	16	Dunstan.
20	T		☊ ♊	2	5 ♐	12	11	15	18	*about which*
21	W	Oxf. Term ends	0	59	17	27	12	16	20	*time expect*
22	T	Prs. Eliz. b.	1	57	29	32	12	17	22	Corp. Christ.
23	F	Trinity T. beg.	2	54	11 ♑	29	13	18	24	*some rain.*
24	S		3	52	23	20	13	19	26	
25	E	1 S. after Trin.	4	49	5 ♒	10	14	20	28	*Wind and*
26	M	Augustine	5	47	17	2	15	21	♊	*rain towards*
27	T	Ven. Bede	6	44	29	1	15	22	2	*the end.*
28	W		7	42	11 ♓	12	16	23	4	
29	T	K. Ch. II. rest	8	39	23	38	16	24	7	
30	F	Sun rises 3. 54.	9	37	6 ♈	24	17	25	9	☌ ☉ ☿, □ ♄ ☿
31	S	Sun sets 8. 7.	10	34	19	34	17	26	11	□ ☉ ♄

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M D	Jupiter South	Venus South
1	3 4	3 0
6	2 46	3 4
11	2 29	3 8
16	2 11	3 12
21	1 54	3 15
26	1 36	3 17

New Moon 5th Day at Midnight.
First Quarter 12th Day at 6 Afternoon.
Full Moon 20th Day at 1 Morning.
Last Quarter 28th Day at 5 Morning.
1st Day ♄ S. 20 5, ♂ 5 40, ♀ 22 28.
16th D. ♄ S. 19 10, ♂ 5 13, ♀ 23 1.

M D	Lunar Aspects. ☉	♄	♃	♂	♀	☿	Clock slow	Moon South	☽ rises & sets	Observations.
1			□		□		3 14	8m14	2m21	A second remark
2				△			3 21	8 59	2 39	worthy our notice is,
3						♂	3 27	9 47	3 0	that there is a certain
E			*	□	*	15	3 33	10 35	3 21	cœlestial influence,
5	♂	*					3 38	11 28	3 48	which worketh under
6	12			*			3 43	0a25	☽ sets	the great Agent and
7		□					3 47	1 25	9a51	*primum mobile* of all,
8			♂		♂	*	3 50	2 26	10 49	in a manner imper-
9	*	△	9		19		3 53	3 27	11 36	ceptible to us, except-
10						□	3 56	4 26	morn.	ing by its effects, o-
E				♂			3 57	5 22	0 12	therwise when Job
12	□		*	2			3 59	6 14	0 42	talks of the bands of
13		♂			*	△	3 59	7 4	1 5	Orion, Arcturius and
14	△		□				4 0	7 52	1 27	his sons, the season
15				*	□		3 59	8 39	1 48	of Mazaroth, the
16							3 58	9 27	2 7	sweet influence of the
17			△				3 57	10 16	2 29	Pleiades, the Ordi-
E		△		□	△	♂	3 55	11 5	2 54	nances of heaven, and
19	♂						3 52	11 56	3 24	the dominion thereof
20	13	□		△			3 49	morn.	☽ rises	upon the earth, he
21							3 46	0 47	9a41	must have shot wide
22		*	♂				3 41	1 38	10 22	of the mark, and
23					♂		3 37	2 27	10 57	talked entirely at ran-
24	*					△	3 31	3 15	11 24	dom, an expression,
E				♂			3 25	4 0	11 46	the very thought of
26							3 19	4 44	morn.	which must shock e-
27	□	♂	△			□	3 12	5 27	0 7	very Christian reader.
28		23					3 5	6 9	0 26	We therefore justly
29			□		△		2 57	6 52	0 43	approve the divine art
30	△			△		*	2 49	7 36	1 1	of judicial astrology,
31			*		□		2 41	8 23	1 21	when in the hands of
										the humble man of
										learning; who not
										depending upon his
										own private judge-

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Nor yet upon th' unhallow'd ground
Where superstition reigns,
And priestcraft ignorance has bound
In adamantine chains,
Eternal Praise, Oh! Lord to thee,
Who made us Britons bold and free.

M D	♄ ♓	24 ♋
1	11	2
6	11	3
11	11	4
16	11	5
21	11	7
26	11	8

M D	W D	Sundays and Remark. Days.	☉ ♊ ° ′	☽ Lon. ° ′	♂ ♌	♀ ♋	☿ ♊	Mutual Aspe And Weath
		E. 2 S. aft. Trin.						
1			11 ♊ 32	3 ♉ 8	18	27	13	Nicomede.
2	M	Sun rises 3 51	12 29	17 7	18	28	15	*Some rain.*
3	T	K. Geo. III. b.	13 27	1 ♊ 29	19	29	18	✶ ♂ ☿
4	W	Pr. Ern. Aug. b.	14 24	16 9	19	♌	20	Boniface
5	T		15 22	1 ♋ 0	20	1	22	*Fair and pl*
6	F		16 19	15 55	21	1	24	*ſant weath*
7	S	E. 3 Sun. aft. Trin. Sun sets 8h 13m.	17 16	0 ♌ 45	21	2	26	*with an*
8			18 14	15 25	22	3	28	*creaſe of he*
9	M		19 11	29 49	22	4	♋	*which may*
10	T	St. Barnabas	20 8	13 ♍ 54	23	5	2	☌ 24 ☿
11	W		21 6	27 39	23	6	4	Tr. T. end
12	T		22 3	11 ♎ 4	24	7	6	*produce ſom*
13	F	Sun rises 3 44	23 0	24 11	24	7	8	*thunder,*
14	S	E. 4 S. aft. Trinity Sun sets 8 16	23 57	7 ♍ 0	25	8	10	△ ♄ ☿
15			24 55	19 35	26	9	12	*ter-wards fa*
16	M		25 52	1 ♐ 57	26	10	14	
17	T	St. Alban	26 4	14 8	27	11	16	✶ ☉ ♂
18	W	Sun rises 3 43	27 46	26 12	27	11	17	*and pleaſant*
19	T		28 44	8 ♑ 9	28	12	19	*weather; th*
20	F	Tr. Ed K. W. S.	29 41	20 1	28	13	21	*wind and ſo*
21	S	E. 5 S. aft. Trin. Longest day	0 ♋ 38	1 ♒ 51	29	14	22	*wet, after*
22			1 35	13 42	♍	14	24	*which we ho*
23	M	Nat. J. Bapt. Sun sets 8 17	2 32	25 35	0	15	25	*for ſettled we*
24	T		3 30	7 ♓ 35	1	16	27	*ther to the en*
25	W		4 27	19 46	1	16	28	
26	T	Sun rises 3 44	5 24	2 ♈ 10	2	17	♌	
27	F	Sun sets 8 16	6 21	14 53	3	18	1	
28	S	E. 6 S. aft. Trin.	7 18	27 58	3	18	2	
29			8 16	11 ♉ 27	4	19	4	St. Pet.
30	M		9 13	25 23	4	19	5	☌ ☉

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M D	Jupiter South		Venus South		
1	1	29	3	18	New Moon 4th Day at 9 Morning.
6	1	12	3	14	First Quarter 10th Day at Midnight.
13	0	56	3	9	Full Moon 18th Day at 3 Afternoon.
16	0	40	3	4	Laſt Quarter 26th Day at 7 Afternoon.
21	0	25	2	59	1ſt Day ♄ S. 18 9, ♂ 4 42, ☿ 0 7.
26	0	10	2	54	16th D. ♄ S. 17 8, ♂ 4 13, ☿ 1 19.

M D	Lunar Aſpects. ☉	♄	♃	♂	♀	☿	Clock ſlow	Moon South	☽ riſes & ſets	Obſervations.
E		*					2 31	9m13	1m45	ment, or paſſing his
2				□	*		2 22	10 7	2 14	*ipſe dixit* as an infal-
3	♂	□					2 12	11 6	2 52	lible rule, but devout-
4	21			*		♂	2 2	0 8	☽ ſets	ly contemplating, ſays
5		△	♂			7	1 51	1 11	9a27	with the inſpired pſal-
6			3				1 40	2 13	10 11	miſt, *I will conſider*
7					♂		1 29	3 11	10 43	*the heavens, even the*
E	*			♂	3		1 18	4 6	11 8	*works of thy fingers:*
9		8	*	10		*	1 6	4 58	11 31	*the moon and the ſtars*
10	□						0 54	5 47	11 51	*which thou haſt or-*
11			□		*	□	0 42	6 34	morn.	*dained.*
12	△						0 30	7 22	0 10	In this humble diſ-
13			△				0 18	8 10	0 32	poſition of mind, with
14		△		*	□	△	0 5	8 58	0 56	the aſpects of the ce-
E							Obef 8	9 48	1 23	leſtial wanderers in
16		□		□	△		0 20	10 38	1 57	my eye, the dogmas
17							0 33	11 28	2 38	of the ancients before
18	8		8	△			0 46	morn.	☽ riſes	me, the hiſtory of
19	3	*					0 59	0 18	8a52	times paſt, and the
20						8	1 12	1 6	9 24	former ſtate of em-
21							1 24	1 52	9 46	pires now no more,
E					8		1 37	2 36	10 7	deeply impreſſed upon
23	△		△	8			1 50	3 19	10 25	my mind, and above
24		♂					2 3	4 1	10 43	all examining the re-
25		7				△	2 15	4 42	11 1	ſult of my nocturnal
26	□		□				2 28	5 25	11 19	contemplations by the
27					△		2 40	6 9	11 40	unerring word of pro-
28	*	*	*	△		□	2 53	6 56	morn.	phecy, as I find it re-
E					□		3 5	7 47	0 6	corded in the ſacred
30				□		*	3 17	8 42	0 38	volume of holy writ;

I now ſit down to give my judgment candidly according to the little ſhare of ſcientific

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Boreas in the frozen North
Extends his baleful reign;
Whence ſcaly monſters iſſue forth,
Or bears infeſt the plain:
Where ſeas of ice, and fields of ſnow
Benumb and bury all below.

M D	♄ ♓
1	1
6	11
11	11
16	10
21	10
26	10

M D	W D	Sundays and Remark. Days.	☉ ♋ ° ′	☽ long ° ′	♂ ♍	♀ ♌	☿ ♌	Mutual A And Weat
1	F	Cam. Commen.	10 ♋ 10	9 ♊ 46	5	20	6	△ ☉
2	W	Viſit. B. V. M.	11 7	24 31	5	20	7	*High wind*
3	T	Dog days begin	12 5	9 ♋ 34	6	21	8	
4	F	Tr. of St. Mart.	13 2	24 45	7	21	9	Camb. T.
5	S	Old Midſ. day	13 59	9 ♌ 55	7	22	10	
6	E	7 S. aft. Trin.	14 56	24 53	8	22	11	*Fine weat*
7	M	Oxford Act	15 54	9 ♍ 33	8	22	12	
8	T		16 51	23 49	9	23	13	
9	W	Sun riſes 3 51	17 48	7 ♎ 38	10	23	14	△ ♄ ♃
10	T	Sun ſets 8 8	18 45	21 2	10	23	14	☌ ♄ ♂
11	F		19 42	4 ♍ 2	11	23	15	
12	S	Oxf. T. ends	20 40	16 42	11	24	16	✶ ♃ ♂
13	E	8 S. aft. Trin.	21 37	29 5	12	24	16	
14	M		22 34	11 ♏ 15	13	24	17	
15	T	Swithin	23 31	23 16	13	24	17	*Sultry; pe*
16	W		24 29	5 ♑ 10	14	24	17	*haps ſometh*
17	T	Sun riſes 4 0	25 26	17 1	14	R	18	*der.*
18	F	Sun ſets 7 59	26 23	28 51	15	24	18	
19	S		27 20	10 ♒ 42	16	24	18	
20	E	9 S. aft. Trin.	28 18	22 35	16	24	R	Margaret
21	M		29 15	4 ♓ 33	17	24	18	
22	T	Magdalen	0 ♌ 12	16 38	18	24	18	
23	W		1 10	28 51	18	24	17	
24	T		2 7	11 ♈ 17	19	23	17	*Expect ab*
25	F	St. James	3 4	23 58	19	23	17	*this time ſon*
26	S	St. Ann	4 2	6 ♉ 58	20	23	16	*ſudden ſhowe*
27	E	10 S. aft. Trin.	4 59	20 21	21	22	16	
28	M		5 56	4 ♊ 8	21	22	15	
29	T	Sun riſes 4 16	6 54	18 21	22	21	14	
30	W	Sun ſets 7 43	7 51	2 ♋ 58	22	21	14	
31	T		8 49	17 57	23	20	13	

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Jupiter South	Venus South
23 51	2 43
23 35	2 30
23 20	2 14
23 4	2 55
22 48	0 38
22 35	1 8

New Moon 3d Day at 4 Afternoon.
First Quarter 10th Day at 8 Morning.
Full Moon 18th Day at 7 Morning.
Laft Quarter 26th Day at 6 Morning.
1ſt Day ♄ S. 16 7, ♂ 3 44, ☿ 1 50.
16th D. ♄ S. 15 5, ♂ 3 17, ☿ 1 31.

Lunar Aſpects. ☉	♄	♃	♂	♀	☿	Clock faſt	Moon South	☽ riſes & ſets	Obſervations.
1		□			*	3 28	9m42	1m22	knowledgewithwhich
2				*		3 40	10 45	2 19	heaven has been plea-
3	♂	△	♂			3 51	11 48	☽ ſets	ſed to bleſs me, upon
4	4		☉			4 1	0a50	8a 34	the ſtate of the world
5				♂	♂	4 12	1 49	9 5	in general in this pre-
6			☿	19	1	4 22	2 44	9 29	ſent ephemeris.
7	*	☍	*	21		4 32	3 35	9 51	*Erunt controverſiæ*
8						4 41	4 24	10 9	*inter homines; alter-*
9	□		□		*	4 50	5 13	10 32	*cations & diſſenti-*
10				*		4 58	6 2	10 55	*ones.* Not to trouble
11		△	△	*	□	5 6	6 50	11 21	the reader with every
12	△			□		5 14	7 40	11 53	aſpect amicable or
13		□				5 21	8 30	morn.	inimical, as they fol-
14				□	△	5 27	9 20	0 32	low one another in
15					△	5 33	10 9	1 18	the courſe of the re-
16			☍	△		5 39	10 58	2 11	volving year; but
17	☍					5 44	11 45	3 11	rather with an eye of
18	19					5 48	morn.	☽ riſes	contemplation upon
19					☍	5 52	0 30	8a10	the reſult of the whole
20				☍		5 55	1 14	8 29	together with a view
21		♂	△			5 58	1 56	8 46	of the preſent ſtate of
22		11		☍		6 0	2 37	9 4	mundane affairs, I
23	△					6 2	3 19	9 22	think I may venture
24			□		△	6 3	4 2	9 43	to affirm, that there
25	□					6 4	4 48	10 6	is a great work going
26		*	*		□	6 4	5 36	10 36	forward in the world;
27		☉		△		6 3	6 28	11 11	many ſurpriſing re-
28	*	□			*	6 2	7 24	morn.	volutions havewe ſeen
29				□		6 0	8 23	0 0	in our days. Yet theſe
30					*	5 58	9 25	1 2	are but the dawnings
31		△	♂			5 55	10 27	2 16	of a future day, and
			20	*					Providence by means
									imperceptible to us
									is bringing things a-
									bout in ſuch a man-

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In southern climes behold the cell
And unfrequented brake,
Where Tigers fierce and Lions dwell,
Or rolls the enormous snake.
Or Egypt's coast where in the Nile
Dwells the unwieldly Crocodile.

D	♄	♃	♅
1	10	16	♐
6	9	17	14
11	9	18	14
16	9	19	13
21	8	20	13
26	8	21	13

M D	W D	Sundays and Remark. Days	☉ ♌ ° ′	☽ Lon. ° ′	♂ ♍	♀ ♌	☿ ♌	Mutual Aſpects And Weather.
1	F	Lammas day	9♌46	3♌ 9	24	20	12	
2	S		10 44	18 25	24	19	11	☌ ☉ ☿
3	E	11 S. aft. Trin.	11 41	3♍33	25	19	10	*Moiſt weather*
4	M	Sun riſes 4 25	12 39	18 24	26	18	10	*at the begin-*
5	T		13 36	2♎50	26	18	9	*ning of this*
6	W	Transfiguration	14 34	16 47	47	17	8	*month.*
7	T	Frs. Am. b.	15 31	0♏15	27	16	8	Name of Jeſus
8	F	Sun ſets 7 28	16 29	13 16	28	16	7	☌ ☉ ♀
9	S		17 27	25 53	29	15	7	
10	E	12 S. aft. Trin.	18 24	8♐12	29	15	6	St. Lawrence
11	M	Frs. Brunſ. b.	19 22	20 16	♎	14	6	Dog days end
12	T	Pr. of Wales b.	20 19	2♑12	1	13	D	Old Lammas
13	W	Sun riſes 4 41	21 17	14 2	1	13	6	*Moderate.*
14	T		22 15	25 51	2	12	6	
15	F	Aſſumption	23 12	7♒42	2	12	7	
16	S	D. York born	24 10	19 36	3	11	7	*Variable weather.*
17	E	13 S. aft. Trin.	25 8	1♓36	4	11	7	
18	M		26 6	13 42	4	10	8	
19	T	Sun ſets 7 9	27 3	25 56	5	10	9	
20	W		28 1	8♈19	6	9	10	☌ ♀ ☿
21	T	Pr. W. Hen. b.	28 59	20 52	6	9	1	*Wet.*
22	F	Sun riſes 4 57	29 57	3♉38	7	9	12	
23	S		0♍55	16 39	8	9	13	
24	E	14 S. aft. Trin.	1 52	29 58	8	8	14	St. Bartholo
25	M		2 51	13♊37	9	8	16	
26	T	Sun ſets 6 5 6	3 49	27 38	10	8	17	
27	W		4 47	12♋ 1	10	8	19	*Seaſonable.*
28	T	St. Auguſtine	5 45	26 44	11	8	20	
29	F	Beh. Jo. Bapt.	6 43	11♌42	11	D	22	
30	S		7 41	26 47	12	8	24	☌ ☉ ♄
31	E	15 S. aft. Trin.	8 39	11♍49	13	8	26	

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1	22	17	0	32
6	22	1	0	4
♌ 1	21	45	23	34
16	21	29	23	3
♒ 1	21	12	22	33
26	20	56	22	6

New Moon 1ſt Day at 11 Night.
Firſt Quarter 8th Day at 7 Afternoon.
Full Moon 16th Day at 10 Night.
Laſt Quarter 24th Day at 4 Afternoon.
New Moon 31ſt Day at 7 morning.
1ſt Day ♄ S. 13 56, ♂ 2 49, ☿ 0 3.

M D	Lunar Aſpects. ☉	♄	♃	♂	♀	☿	Clock faſt	Moon South	☽ riſes & ſets	Obſervations.
1	☌					☌	5 51	11 29	☽ ſets	ner, that our ſucceſ-
2	☐				☌	13	5 47	0 a 26	7 a 28	ſors ſhall ſee what
E		✶	✶		2		5 43	1 21	7 51	their forefathers ne-
4				☌			5 37	2 14	8 13	ver dreamt of. Many
5	✶			12		✶	5 31	3 5	8 36	an adventrous ſcheme
6			□		✶		5 25	3 55	9 0	built upon high pro-
7		△				□	5 18	4 45	9 25	babilities, over-ruled
8	□		△		□		5 10	5 35	9 55	by a higher hand, will
9				✶		△	5 2	6 25	10 32	come to nothing,
E	△	□			△		4 53	7 16	11 16	while there are ſcat-
11				□			4 43	8 7	morn.	tered in the ſeeds of
12		✶					4 33	8 56	0 8	time, though unno-
13			☌				4 22	9 44	1 6	ticed, ſuch phæno-
14				△		☌	4 11	10 3☌	2 8	mena as ſhall grow
15					☌		3 59	11 14	3 13	upward and take root
16	☌						3 47	11 57	☽ riſes	downward to the a-
E	10	☌					3 34	morn.	6 a 55	ſtoniſhment of many;
18		14	△				3 21	0 39	7 14	let thoſe who gloried
19				☌			3 7	1 22	7 34	in our late loſſes, look
20			□		△	△	2 53	2 5	7 53	to themſelves; this
21	△						2 38	2 50	8 16	perhaps is only an o-
22		✶			□	□	2 23	3 37	8 43	verture to their own
23			✶				2 8	4 27	9 15	perdition: and the
E	□	□		△	✶	✶	1 52	5 20	9 59	ſtrength of a proud
25							1 36	6 16	10 52	nation may be laid
26	✶	△		□			1 19	7 15	11 58	low when that day
27			☌				1 2	8 15	morn.	cometh; whether by
28			14		☌		0 44	9 15	1 16	gradual ſteps or un-
29				✶	18	☌	0 27	10 14	2 39	expectedly as a thief
30	☌	☌				18	0 9	11 11	4 6	in the night; many
E	19		✶				0 a f. 10	0 a 5	☽ ſets	with wonder ſhall ſay,

This is the Lord's doing, and it is marvellous in our eyes.

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Behold where Afric's ſwarthy ſons
Do blacken all the coaſt;
Breathleſs beneath the ſcorching ſuns,
Or in the whirlwind loſt;
Parch'd with the blaze of day their lands
Appear a heap of burning ſands.

M D	♄ ♑	♃ ♋	☽ ♌
1	7	22	♐
6	7	23	12
11	7	24	12
16	6	24	11
21	6	25	11
26	6	26	11

M D	W D	Sundays and Remark. Days.	☉ ♍ ° ′	☽ Lon. ° ′	♂ ♎	♀ ♏	☿ ♏	Mutual Aſpects And Weather.
1	M	Giles Abbot	9♍37	26♍39	13	8	27	*Moiſt at the*
2	T	Lon. burn. 1666	10 36	11♎ 7	14	8	29	*beginning.*
3	W		11 34	25 8	15	8	♍	
4	T	Sun riſes 5 22	12 32	8♍40	15	8	3	
5	F	Sun ſets 6 37	13 30	21 45	16	9	5	
6	S		14 29	4♐24	17	9	7	☌ ♄ ☿
7	☩	16 S. aft. Trin.	15 27	16 43	17	9	9	Enurchus.
8	M	Nat. B. V. M.	16 25	28 48	18	10	11	
9	T		17 24	10♑42	18	10	13	*Moderate*
10	W	Sun riſes 5 33	18 22	22 32	19	10	14	
11	T		19 21	4♒22	20	11	16	
12	F	Sun ſets 6 23	20 19	16 15	21	11	18	*Windy.*
13	S		21 18	28 15	21	12	20	
14	☩	17 S. aft. Trin.	22 16	10♓23	22	12	22	H.Croſs ☌ ☉ ☿
15	M		23 15	22 41	23	13	24	✱ ♃ ☿
16	T	Sun riſes 5 45	24 13	5♈ 9	23	13	26	✱ ☉ ♃
17	W	Ember week	25 12	17 47	24	14	27	Lambert.
18	T		26 11	0♉36	25	14	29	□ ♃ ♂
19	F	Sun ſets 6 9	27 9	13 36	25	15	♎	
20	S		28 8	26 48	26	16	3	*Wind & rain.*
21	☩	18 S. aft. Trin.	29 7	10♊13	27	16	4	St. Matthew
22	M	St. Matthew	0♎ 6	23 52	27	17	6	*More moderate.*
23	T	Sun riſes 5 59	1 4	7♋46	28	18	8	
24	W	Sun ſets 5 59	2 3	21 56	29	18	10	
25	T		3 2	6♌21	29	19	11	
26	F	St. Cyprian	4 1	20 57	♍	20	13	
27	S		5 0	5♍39	1	21	15	*Wind & rain.*
28	☩	19 S. aft. Trin. St. Michael	5 59	20 20	1	21	16	
29	M		6 58	4♎53	2	22	18	Pen. C. Au. M.
30	T	St. Jerome	7 58	19 10	3	23	19	

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M D	Jupiter South		Venus South	
1	20	48	21	46
6	20	33	21	32
11	20	18	21	22
16	20	4	21	15
21	19	49	21	11
26	19	35	21	9

First Quarter 7th Day at 9 Morning.
Full Moon 15th Day at 1 Afternoon.
Last Quarter 22d Day at midnight.
New Moon 29th Day at 4 Afternoon.
1st Day ♄ S. 11 53, ♂ 2 5, ☿ 23 19.
16th D. ♄ S. 10 25, ♂ 1 48, ☿ 0 8.

M D	Lunar Aspects. ☉	♄	♃	♂	♀	☿	Clock slow	Moon South	☾ rises & sets	Observations.
1					*		0 28	0a 57	6 a 44	We Britons bleſſed
2			□	♂			0 47	1 49	7 8	with the beſt of hu-
3		△		5		*	1 7	2 41	7 33	man eſtabliſhments,
4	*				□		1 26	3 33	8 3	the beſt of princes, the
5			△				1 46	4 25	8 38	beſt of laws, and li-
6	□	□			△	□	2 6	5 17	9 20	berty purchaſed with
E				*			2 26	6 8	10 9	the precious blood of
8		*					2 46	6 58	11 5	our forefathers, have
9	△			□		△	3 7	7 47	morn.	yet a glorious proſ-
10			8				3 27	8 34	0 6	pect; and as to the
11					8		3 48	9 19	1 11	loſſes we have ſuſ-
12				△			4 9	10 2	2 17	tained let us ſay,
13		♂					4 30	10 45	3 23	*We [illegible] the [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] cause of the [illegible].*
E		16					4 51	11 28	4 31	
15	8		△			8	5 12	morn.	☽ rises	Let us unite in the
16	1				△		5 33	0 12	6a 9	bands of amity, and
17			□	8			5 54	0 57	6 31	he who hath from
18		*					6 15	1 44	6 58	time to time done
19			*		△		6 36	2 33	7 28	great and wonderful
20	△	□				△	6 57	3 25	8 8	things for us, where-
E					*		7 18	4 20	8 57	of we rejoice, ſhall
22	□	△		△			7 39	5 17	9 58	ſtill be gracious to his
23						□	8 0	6 15	11 9	Sion. Still ſhall com-
24	*		♂	□			8 20	7 14	morn.	merce unfurl her ſails,
25			7		♂	*	8 40	8 11	0 28	and enrich our ſhores
26				*	21		9 0	9 6	1 50	with the produce of
27		8					9 20	10 0	3 13	the whole earth; ſtill
E			*				9 40	10 52	4 36	ſhall agriculture cloth
29	♂						9 59	11 44	☽ ſets	the earth with delici-
30	4		□		*	♂	10 18	0a 37	5a 43	ous verdure. *The [illegible] ſhall be full of [illegible] and the valleys [illegible]*
						13				

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In happy Britains fertile isle	1	5	27	♐
No scenes like these appear;	6	5	27	11
On us the pow'rs propitious smile	11	5	28	10
And Ceres crowns the year.	16	5	28	10
Oh! long may plenty bless the plain,	21	5	29	10
And long may George and Charlotte reign.	26	4	29	9

M O	W D	Sundays and Remark Days.	☉ ♎ ° ′	☽ long. ° ′	♂ ♏	♀ ♌	☿ ♎	Mutual Aspects And Weather.
1	W	Remigius	8 ♎ 57	3 ♏ 4	4	24	21	*Dark weather*
2	T		9 56	16 33	4	25	23	
3	F	Sun rises 6 18	10 55	29 40	5	25	24	△ ♄ ♂
4	S	Sun sets 5 40	11 54	12 ♐ 21	6	26	26	
5			12 54	24 43	6	27	27	□ ♃ ☿ . ✱ ♀ ☿
6	M	Faith 2 S. aft. Trin.	13 53	6 ♑ 49	7	28	29	*Wet & windy*
7	T	Sun rises 6 26	14 52	18 45	8	29	♏	
8	W		15 52	0 ♒ 36	8	♍	2	
9	T	St. Denys	16 51	12 27	9	1	3	
0	F	Ox. & Cam. T. b.	17 50	24 23	10	2	5	O. Mich. d.
1	S		18 50	6 ♓ 28	10	3	6	*Temperate.*
2			19 49	18 44	11	4	8	
3	M	Tr. K. Edward 3 S. aft. Trin.	20 49	1 ♈ 13	12	5	9	☍ ♄ ♀
4	T		21 48	13 56	12	5	11	*Seasonably, but*
5	W	Sun sets 5 18	22 48	26 53	13	6	12	*inclining to*
6	T		23 47	10 ♉ 3	14	7	13	*wind.*
7	F	Etheldred	24 47	23 26	15	8	15	☌ ♂ ☿
8	S		25 47	6 ♊ 59	15	9	16	
9		St. Luke	26 47	20 42	16	10	18	*More temperate*
0	M	2 S. aft. Trin.	27 46	4 ♋ 33	17	11	19	
1	T	Sun rises 6 53	28 46	18 33	17	12	20	□ ☉ ♃
2	W		29 46	2 ♌ 40	18	13	22	
3	T	Sun sets 5 3	0 ♏ 46	16 52	19	14	23	*Cold and moist*
4	F		1 46	1 ♍ 8	20	15	24	
5	S		2 46	15 25	20	17	25	Crispin
6		K. Geo. III. acc.	3 46	29 38	21	18	27	
7	M	3 S. aft. Trin.	4 46	13 ♎ 43	22	19	28	K. G. III. ph.
8	T		5 46	27 36	22	20	29	△ ♄ ☿
9	W	St. Sim. & Jude	6 46	11 ♍ 12	23	21	♐	
0	T	Sun rises 7 10	7 46	24 30	24	22	1	*Moderate*
1	F	Sun Sets 4 48	8 46	7 ♐ 28	24	23	2	

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1	19	20	21	8	First Quarter 7th Day at 3 Morning.
6	19	4	21	8	Full Moon 15th Day at 4 Morning.
11	18	47	21	7	Laſt Quarter 22d Day at 7 Morning.
16	18	31	21	7	New Moon 29d Day at 3 Morning.
21	18	14	21	8	1ſt Day ♄ S. 9 57, ♂ 1 32, ♀ 0 45.
26	17	57	21	9	16th D. ♄ S. 9 0, ♂ 1 17, ♀ 1 14.

M	Lunar Aſpects.						Clock	Moon	☽ riſes	Obſervations.
D	☉	♄	♃	♂	♀	☿	ſlow	South	& ſets	
1		△		♂			10 37	1a29	6a 9	*ſtand ſo thick with*
2			△	1	□		10 35	2 23	6 45	*corn, that they ſhall* Still
3	✱	□					11 13	3 16	7 25	*not find*
4							11 31	4 8	8 11	ſhall arts and ſcience
E		✱			△	✱	11 48	4 59	9 5	flouriſh among us
6	□			✱			12 5	5 49	10 5	and God, even our
7			8				12 22	6 37	11 8	God ſhall give us his
8				□		□	12 38	7 22	morn.	bleſſing, while others
9	△						12 54	8 6	0 12	are ſitting in the ſha-
10		♂			8		13 10	8 49	1 19	dow of darkneſs, light
11		21		△		△	13 24	9 32	2 26	is ſprung up unto us
E			△				13 39	10 15	3 34	and while ſuperſtition
13							13 53	11 0	4 42	is chained down in
14	8						14 6	11 47	5 42	the cells of ignorance
15	16	✱	□		△		14 19	morn.	☽ riſes	we walk in the glori-
16				8		8	14 31	0 36	5a35	ous liberty of the
17		□	✱				14 43	1 28	6 14	goſpel.
18					□		14 54	2 23	6 59	It is our duty with
E	△						15 4	3 20	7 59	thankful hearts eve
20		△		△	✱		15 14	4 18	8 8	to remember theſe in
21	□		♂			△	15 23	5 16	10 21	eſtimable bleſſings
22			18				15 31	6 12	11 41	and that they may
23				□		□	15 36	7 6	morn.	continue to us and
24	✱	8					15 46	7 58	1 2	our poſterity, let us
25				✱	♂	✱	15 52	9 49	2 22	live in the fear of
E			✱		2		15 57	9 40	3 42	God, in humble duty
27							16 2	10 31	5 2	to our king, and in
28	♂	△	□				16 6	11 23	6 21	love and peace; that
29	15			♂	✱		16 9	0a15	☽ ſets	may we ſtill, one with
30		□	△	21		♂	16 11	1 8	5a22	another, be a happy
31						13	16 13	2 1	6 7	people, and heave

avert every aſpect that threatens evil omen to our ſea girt iſle.

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Under their mild and auſpicious hands
How bleſs'd and happy we!
While arts and ſcience bleſs the land,
And commerce ſweeps the ſea;
While tyranny with viſage fell
Flies howling to his native hell.

M D	♄ ♐	4 ♃	☾ ♌
1	4	30	♐
6	D	30	9
11	4	30	9
16	4	30	8
21	4	30	8
26	5	30	8

M D	W D	Sundays and Remark. Days.	☉ ♏ o ′	☽ long. o	♂ ♏	♀ ♍	☿ ♐	Mutual Aſpects And Weather.
1	S	All Saints.	9♏46	20♐ 7	25	24	3	*Moderate*
2	E	24 S. aft. Trin.	10 46	2♑28	26	25	4	*r. Edw.*
3	M	S. Sophia b.	11 47	14 36	27	26	5	□ ♄ ☿
4	T		12 47	26 33	27	27	6	☌ ♂ ♀
5	W	Powder Plot	13 47	8♒26	28	28	6	*at the beginning*
6	T	Leonard	14 48	20 17	29	29	7	Mich. T. b.
7	F	D. Cumb. b.	15 48	2♓14	♐	♎	7	△♃♂. ✶♃♀
8	S	Prs. Aug. So. b.	16 48	14 19	0	2	8	
9	E	25 S. aft. Trin.	17 49	26 38	1	3	8	*Stormy, moiſt*
10	M	Ld. Mayor's day	18 49	9♈13	2	4	8	*and cold about*
11	T		19 49	22 6	2	5	R	*this time.*
12	W		20 50	5♉19	3	6	8	
13	T	Britius	21 50	18 50	4	7	8	□♄♂, ✶♀☿
14	F		22 51	2♊38	5	8	7	*Moderate, and*
15	S	Machutus	23 51	16 39	5	9	7	☌ ♂ ☿
16	E	26 S. aft. Trin.	24 52	0♋50	6	11	6	
17	M	Hugh	25 53	15 6	7	12	5	□ ♄ ☿
18	T		26 54	29 25	8	13	4	*ſo continues, but*
19	W	Sun riſes 7 43	27 54	13♌42	8	14	2	
20	T	Edmund	28 55	27 55	9	15	1	△ ☉ ♃
21	F		29 55	12♍ 2	10	16	♍	☌ ☉ ☿
22	S	Cecilia	0♐56	26 0	10	18	28	Old Mart. d.
23	E	27 S. aft. Trin.	1 57	9♎48	11	19	27	St. Clement
24	M	Sun ſets 4 10	2 58	23 25	12	20	26	
25	T	D. of Glouc. b.	3 58	6♍50	13	21	25	Catherin. □☉♄.
26	W	Sun riſes 7 52	4 59	20 1	13	22	24	
27	T		6 0	2♐58	14	23	23	
28	F	Mich. Ter. ends	7 1	15 41	15	25	23	*windy towards*
29	S	Sun ſets 4 4	8 3	28 10	16	26	22	*the end.*
		Advent Sunday	9 4	10♑26	16	27	D	St. Andrew

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M D	Jupiter South	Venus South	
1	17 35	21 10	First Quarter 5th Day at Midnight.
6	17 15	21 10	Full Moon 13th Day at 6 Evening.
11	16 55	21 11	Last Quarter 20th Day at 2 Afternoon.
16	16 34	21 11	New Moon 27th Day at 6 Evening.
21	16 14	21 12	1st Day ♄ S. 7 57, ♂ 1 2, ☿ 1 32.
26	15 53	21 13	16th D. ♄ S. 6 56, ♂ 0 46, ☿ 0 45.

M	Lunar Aspects.						Clock	Moon	☽rises	Observations.
D	☉	♄	♃	♂	♀	☿	slow	South	& sets	
1					□		16 14	2a54	6a59	We know from the
E	✶	✶					16 14	3 45	7 58	sure word of prophecy
3							16 13	4 33	8 59	that all shall come to
4			☌	✶	△	✶	16 11	5 19	10 3	the knowledge of the
5	□						16 9	6 4	11 9	true God, and of the
6				□			16 6	6 47	morn.	Lamb slain from the
7		☌				□	16 2	7 29	0 13	foundation of the world.
8	△	4					15 57	8 11	1 18	This work is at this
E			△	△	☌	△	15 51	8 54	2 27	day carrying on, it is be-
10							15 44	9 39	3 36	gun by methods inex-
11		✶	□				15 37	10 27	4 47	plicable by us, but ano
12							15 29	11 18	5 59	ther century may see
13	☌		✶				15 20	morn.	☽rises	part at least of the bless-
14	6	□		☌	△	☌	15 10	0 13	4a55	fed effects; when we
15							14 59	1 11	5 51	shall long have slept the
E		△			□		14 47	2 10	6 56	sleep of death, and rest-
17	△						14 35	3 9	8 7	ed from all our labours.
18			☌	△		△	14 21	4 6	9 30	There shall be tribula-
19			1		✶		14 7	5 1	10 49	tions in the East, and
20	□	☌		□		□	13 52	5 54	morn.	vexations and tore dis-
21							13 36	6 44	0 9	turbances in the West;
22	✶		✶			✶	13 20	7 33	1 26	but all shall work to one
E				✶	☌		13 2	8 22	2 38	and the same great end.
24		△	□		18		12 44	9 12	4 1	Powerful nations shall
25							12 25	10 2	5 15	have their period; and
26			△			☌	12 5	10 54	6 28	the places which now
27	☌	□		☌		7	11 45	11 46	☽ sets	know them shall know
28	6			21	✶		11 24	0a39	4a43	them no more. But
29		✶					11 2	1 30	5 38	*Thy throne, O God, is for*
E						✶	10 39	2 20	6 39	*ever and ever; a sceptre*
										of righteousness is the sceptre
										of thy kingdom.
										Kingdoms at present
										in embryo, and states as
										yet unknown, when the
										fulness of time is come,
										shall rise and praise thy
										name.

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DECEMBER hath xxxi Days.

M D	♄ ♑	4 ♋	☽ ♌
1	5	30	♐
6	5	29	7
11	5	29	7
16	6	28	7
21	6	28	6
26	6	27	6

But say what Realms beneath the sky
So bless'd as we appear;
Religion pure and liberty
Have fix'd their standard here:
Let Britons then pour forth their lays
Of Gratitude in hymns of praise.

M D	W D	Sundays and Remark. Days.	☉ ♐ ° ′	☽ long. ° ′	♂ ♐	♀ ♒	☿ ♏	Mutual Aspects And Weather.
1	M		10 ♐ 4	22 ♍ 31	17	28	22	*Snow or sleet*
2	T	Sun rises 7 59	11 5	4 ♒ 29	18	29	22	□ 4 ☿
3	W		12 6	16 21	19	♏	23	*with winds.*
4	T	Sun sets 4 0	13 7	28 12	19	2	23	
5	F		14 8	10 ♓ 7	20	3	23	
6	S	Nicholas	15 9	22 10	21	4	24	*A sharp air.*
7	E	2 S. in Advent	16 10	4 ♈ 27	22	5	24	△ ♄ ☿
8	M	Conc. B. V. M.	17 11	17 0	22	6	25	
9	T		18 12	29 55	23	8	26	*Seasonable.*
10	W	Sun rises 8 5	19 13	13 ♉ 13	24	9	27	△ 4 ☿
11	T	Sun sets 3 55	20 14	26 55	25	10	28	
12	F		21 15	11 ♊ 1	25	11	29	*Cold winds*
13	S	Lucy.	22 16	25 26	26	12	♐	*and storms.*
14	E	3 S. in Advent	23 17	10 ♋ 6	27	14	2	
15	M		24 18	24 53	28	15	3	
16	T	O Sapi.	25 19	9 ♌ 40	28	16	4	Camb. T. end
17	W	Ember week	26 20	24 19	29	17	6	Cxf. T. ends
18	T		27 21	8 ♍ 46	♍	18	7	
19	F	Sun rises 8 8	28 23	22 57	1	20	8	*More moderate*
20	S	Sun sets 3 52	29 24	6 ♎ 50	1	21	10	
21	E	4 Sun. in Advent.	0 ♍ 25	20 24	2	22	11	St. Tho. Shor. d
22	M		1 26	3 ♏ 41	3	23	12	
23	T	Sun rises 8 8	2 27	16 43	4	24	14	
24	W	Christmas day	3 28	29 30	4	26	15	*Cloudy and*
25	T	St. Stephen	4 30	13 ♐ 6	5	27	17	△ 4 ☿
26	F	St. John	5 31	24 30	6	28	18	✶ ♄ ♂
27	S		6 32	6 ♍ 46	7	29	20	✶ ☉ ♄, ☌ ☉ ♂
28	E	1 S. aft. Christ.	7 33	18 53	7	♐	21	Ingredients.
29	M		8 35	0 ♒ 53	8	2	23	*dark at the*
30	T	Sun sets 3 55	9 36	12 48	9	3	24	*conclusion.*
31	W	Silvester	10 37	24 40	10	4	26	

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M D	Jupiter South		Venus South	
1	15	30	21	14
6	15	8	21	15
11	14	45	21	16
16	14	21	21	18
21	14	56	21	20
26	13	31	21	24

First Quarter 5th Day at 9 Night.
Full Moon 13th Day at 6 Morning.
Last Quarter 19th Day at 10 Night.
New Moon 27th Day at Noon.
1st Day ♄ S. 5 54, ♂ 0 30, ☿ 22 45.
16th D ♄ S. 4 52, ♂ 0 13, ☿ 22 37.

M D	Lunar Aspects. ☉	♄	♃	♂	♀	☿	Clock slow	Moon South	☽ rise & set	Observations.
1			8		□		10 16	3a 7	7a45	The power of Antichrist is already crushed, and the whore of Babylon is falling; but the time when she shall perish from the earth is not yet fully come; but the prayers of the saints have reached the throne of God the Lord, and he will repay it.
2	*						9 52	3 32	8 4	
3				*		□	9 28	4 35	9 53	
4			♂		△		9 3	5 17	10 58	
5	□	♄		□			8 38	5 58	morn.	
6			△			△	8 12	6 39	0 3	
E							7 45	7 22	1 9	
8	△		□	△			7 19	8 7	2 18	
9		*			8		6 51	8 56	3 27	
10							6 24	9 49	4 40	
11			□	*		8	5 56	10 45	5 53	
12	8						5 28	11 44	7 2	The sins of the Gentiles shall be punished, and the imposture of Mahomet be done away, and woe to the Turks, the Tartars, and many others, because of the delusions in which they trusted, in the day when the vial of wrath shall be poured out upon them. But while these things are coming about, great works are doing in heaven and in earth; and if I err not in judgment wonderful mutations shall be seen in our day; and in the course of a few years the finger of God may point out things new, wonderful, and unexpected to those who seek the truth in singleness of heart.
13			△		8		4 59	morn.	☽ rises	
E					△		4 30	0 44	5a41	
15			♂			△	4 1	1 44	7 2	
16			6		□		3 31	2 42	8 23	
17	△	8		△		□	3 2	3 38	9 47	
18					*		2 32	4 31	11 6	
19	□		*	□			2 2	5 21	morn.	
20						*	1 32	6 10	0 23	
E			□	*			1 2	6 58	1 38	
22	*	△					0 32	7 47	2 53	
23			△		♂		0 2	8 37	4 5	
24		□			16		obef. 28	9 28	5 12	
25						♂	0 58	10 19	6 16	
26						14	1 28	11 11	7 7	
27	♂	*		♂			1 58	0a 1	☽ sets	
E	0		8	0	*		2 28	0 48	5a16	
29							2 57	1 34	6 21	
30							3 26	2 18	7 27	
31						*	3 55	3 0	8 32	

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A Compendious Chronology of the moſt principal Epochas and Æras, with their Beginnings, reduced and fixed to the Years of the Julian Period, the Creation of the World, and to the Years before and after Chriſt.

	Julian Period	Anno Mundi	Ante Chriſt.
THE Creation of the World after the Jews	953	1	3763
The Common Epocha of the Creation	765	1	3953
The ſame by the Greek Emperors	788	1	3929
The ſame in Mr. Bedford's Scripture Chronology	707	1	4010
The ſame in Biſhop Uſher's Annals	711	1	4007
The Deluge, or Noah's Flood	2363	1658	2354
Porphyrius's Caldaic Epocha	2481	1718	2203
The Aſſyrian Monarchy by Nimrod	2666	1961	2051
The Birth of Abraham	2715	2010	2002
Joſeph ſold into Egypt	2987	2282	1731
The Iſraelites 400 Years Servitude in Egypt	2820	2115	1897
The Kingdom of Argos founded by Inachus	2858	2153	1859
The Birth of Moſes	3144	2439	1574
The Kingd. of Athens founded by Cecrops	3158	2453	1559
The Iſraelites Departure out of Egypt	3220	2515	1497
Their Entrance into Canaan, or the Jubilee	3259	2554	1458
The Deſtruction of Troy	3531	2826	1186
The firſt ſabbatical Year	3261	2558	1454
The Jewiſh High Prieſthood	3301	2604	1408
The Reign of King David	3647	2942	1070
The Foundation of Solomon's Temple	3699	2994	1018
The Varronian Epocha	3961	3198	814
The Catonian Epocha	3962	3199	813
The Epocha of Nabonaſſar	3967	3262	750
The Olympiads	3939	3234	778
The Building of Rome	3963	3258	754
The Deſtruction of the Kingdom of Iſrael	3993	3288	724
The Beginning of Nebuchadonoſor	4106	3301	711
The Babyloniſh Captivity	4109	3303	709
The Deſtruction of Solomon's Temple	4127	3422	590

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	Julian Period	Anno Mund	Ante Christi
Daniel delivered from the Den of Lions	4176	3470	538
The Temple of Jeruſalem rebuilt -	4198	3488	520
Cyrus the Founder of the Perſian Monarchy	4178	3472	536
The Regifugium Epocha - - - -	4205	3500	508
The Battle at Marathon - - - -	4223	3517	491
Xerxes's Defeat at the Battle of Salamis	4234	3528	480
The Beginning of the Peloponneſian War	4281	3575	433
Meto the Athenian began his Circle -	4282	3576	432
Daniel's 70 Weeks of Years began -	4269	3564	444
The Beginning of the Callippick Period	4383	3677	331
The Death of Alexander - - - - -	4390	3684	324
The Grecian Epocha of the Seleucida	4402	3695	312
The Æra of the Aſmoneans or Maccabees	4548	3841	166
The Epocha of Simon - - - - - -	4570	3865	143
The Julian Epocha, or Correct Callend.	4669	3962	46
The Beginning of the Reign of Herod	4677	3970	37
The Spaniſh Æra - - - - -	4676	3969	36
The Battle of Actium - - - - -	4683	3976	31
The taking of Alexandria - - -	4684	3977	30
The Epocha of the Title of Auguſtus -	4687	3980	27
The true Birth of CHRIST - -	4710	4005	4
The Vulgar or Dionyſian Years of Chriſt	4714	4009	Anno Chriſti
The Paſſion or Death of Chriſt - -	4746	4041	33
The Deſtruction of Jeruſalem - -	4783	4078	70
The Diocleſian or Æra of Martyrs -	4997	4292	284
The Diocleſian Perſecution - - -	5015	4310	302
The Epocha of Conſtantine the Great	5019	4314	306
The Council of Nice - - - - -	5038	4333	325
The Encænia of Conſtantinople - -	5043	4338	330
Phocas makes Pope Boniface Head of the Church - - - - - -	5319	4614	606
Mahomet broaches his Impoſture at Mecca	5321	4616	608
The Epocha of the Hegira - - -	5335	4630	622
The Epocha of Yeſdejerd - - - -	5345	4640	632
The Jellalæan or Gelælæan Epocha -	5792	5087	1079
The Epocha of the Reformation - -	6230	5525	1517
The Revolution effected by King William	6401	5696	1688
The Britiſh Epocha, or correct Kalendar	6465	5760	1752

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A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♈									☉ in ♉								
Time from noon.		10	11	12	Ascen 1		2	3	Time from noon.		10	11	12	Ascen 1		2	3
		♈	♉	♊	♋		♌	♍			♉	♊	♋	♌		♍	♍
h	m	gr	gr	gr	gr	m	gr	gr	h	m	gr	gr	gr	gr	m	gr	gr
0	0	0	9	22	26	42	12	3	1	52	0	9	17	16	31	4	28
0	4	1	10	23	27	43	13	3	1	55	1	10	18	17	11	5	29
0	7	2	11	24	28	2	14	4	1	59	2	11	19	17	51	6	♎
0	11	3	12	25	28	48	15	5	2	3	3	12	19	18	31	7	1
0	15	4	13	25	29	21	15	6	2	7	4	13	20	19	12	8	2
0	18	5	14	26	0	♌ 1	16	7	2	12	5	14	21	19	52	9	3
0	22	6	15	27	0	40	17	8	2	15	6	15	22	20	32	9	4
0	26	7	16	28	1	20	18	8	2	19	7	16	22	21	13	10	5
0	29	8	17	29	2	0	18	9	2	22	8	17	23	21	54	11	6
0	33	9	18	♋	2	39	19	10	2	26	9	18	24	22	35	11	7
0	37	10	19	1	3	19	20	11	2	30	10	19	25	23	16	12	8
0	40	11	20	1	3	59	20	12	2	34	11	20	25	23	57	13	9
0	44	12	21	2	4	38	21	13	2	38	12	21	26	24	38	14	10
0	48	13	22	3	5	17	22	14	2	42	13	22	27	25	19	14	11
0	51	14	23	4	5	57	23	15	2	46	14	23	28	26	0	15	12
0	55	15	24	5	6	36	23	15	2	50	15	24	29	26	42	16	12
0	59	16	25	6	7	15	24	16	2	54	16	25	29	27	24	17	13
1	3	17	26	6	7	55	25	17	2	58	17	26	♌	28	6	18	14
1	6	18	27	7	8	39	26	18	3	2	18	27	1	28	47	18	15
1	10	19	28	8	9	14	26	19	3	6	19	28	2	29	30	19	16
1	14	20	29	9	9	53	27	19	3	10	20	29	3	0	♍ 13	20	17
1	18	21	♊	10	10	34	28	20	3	14	21	29	3	0	55	21	18
1	21	22	1	10	11	12	28	21	3	18	22	♋	4	1	37	22	18
1	25	23	2	11	11	52	29	22	3	22	23	1	5	2	20	22	19
1	29	24	3	12	12	32	♍	23	3	26	24	2	6	3	2	23	20
1	33	25	4	13	13	12	1	24	3	31	25	3	7	3	46	24	21
1	36	26	5	14	13	52	1	25	3	35	26	4	7	4	29	25	22
1	40	27	6	14	14	32	2	25	3	39	27	5	8	5	12	26	23
1	44	28	7	15	15	12	3	26	3	43	28	6	9	5	53	27	24
1	48	29	8	16	15	51	4	27	3	47	29	7	10	6	39	27	25
1	52	30	9	17	16	31	4	28	3	51	30	8	11	7	22	28	25

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A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♈								☉ in ♋							
Time from noon.	10	11	12	Ascen 1	2	3		Time from noon.	10	11	12	Ascen 1	2	3	
	♈	♉	♊	♍	♍	♎			♉	♊	♍	♎	♎	♍	
h m	gr	gr	gr	gr m	gr	gr		h m	gr	gr	gr	gr m	gr	gr	
3 51	0	8	11	7 22	28	25		6 0	0	6	6	0 0	24	24	
3 55	1	9	12	8 0	29	26		6 4	1	7	7	0 47	25	25	
4 0	2	10	13	8 50	♎	27		6 9	2	8	8	1 33	26	26	
4 4	3	10	14	9 34	1	28		6 13	3	9	9	2 19	27	27	
4 8	4	11	15	10 18	2	29		6 17	4	10	10	3 5	27	28	
4 12	5	12	16	11 3	2	♍		6 22	5	11	11	3 51	28	29	
4 16	6	13	17	11 47	3	1		6 26	6	12	12	4 27	29	♐	
4 21	7	14	17	12 31	4	2		6 31	7	13	13	5 23	♍	1	
4 25	8	15	18	13 16	5	3		6 35	8	14	14	6 9	1	2	
4 29	9	16	19	14 1	6	4		6 39	9	15	15	6 55	2	3	
4 32	10	17	20	14 46	7	5		6 44	10	16	16	7 40	2	4	
4 38	11	18	21	15 31	8	6		6 48	11	17	16	8 26	3	4	
4 42	12	19	21	16 16	8	7		6 52	12	18	17	9 12	4	5	
4 46	13	20	22	17 1	9	8		6 57	13	19	18	9 57	5	6	
4 51	14	21	23	17 46	10	9		7 1	14	20	19	10 41	6	7	
4 55	15	22	24	18 32	11	10		7 5	15	21	20	11 28	7	8	
4 59	16	23	24	19 17	12	11		7 9	16	22	21	12 14	8	9	
5 3	17	24	25	20 4	13	12		7 14	17	23	22	12 59	8	10	
5 8	18	25	26	20 49	14	13		7 18	18	24	22	13 45	9	11	
5 12	19	25	27	21 35	14	14		7 22	19	25	23	14 30	10	12	
5 16	20	26	28	22 20	15	14		7 27	20	26	24	15 14	11	13	
5 21	21	27	28	23 6	16	15		7 31	21	27	25	15 59	12	14	
5 25	22	28	29	23 51	17	16		7 35	22	28	25	16 44	13	15	
5 29	23	29	♍	24 37	18	♏		7 39	23	28	26	17 29	13	16	
5 34	24	♌	1	25 25	19	18		7 44	24	29	27	18 14	14	17	
5 38	25	1	2	26 9	20	19		7 48	25	♍	28	18 58	15	18	
5 43	26	2	3	26 55	20	20		7 52	26	1	28	19 42	16	19	
5 47	27	3	4	27 41	21	21		7 56	27	2	29	20 26	17	20	
5 51	28	4	5	28 27	22	22		8 0	28	3	♎	21 10	18	20	
5 56	29	5	5	29 13	23	23		8 5	29	4	1	21 54	18	21	
6 59	30	6	6	30 0	24	24		8 9	30	5	2	22 38	19	22	

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A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♌									☉ in ♍								
Time from noon		10	11	12	Ascen 1		2	3	Time from noon		10	11	12	Ascen 1		2	3
		♌	♍	♎	♎		♏	♐			♍	♎	♎	♍		♐	♑
h	m	gr	gr	gr	gr	m	gr	gr	h	m	gr	gr	gr	gr	m	gr	gr
8	9	0	5	2	22	38	19	22	10	8	0	2	26	13	3	13	20
8	13	1	5	3	23	22	20	23	10	12	1	3	26	14	9	14	21
8	17	2	6	3	24	3	21	24	10	16	2	4	27	14	49	15	22
8	21	3	7	4	24	48	22	25	10	20	3	5	28	15	29	16	23
8	25	4	8	5	25	32	23	26	10	24	4	5	29	16	9	16	24
8	29	5	9	6	26	19	23	27	10	27	5	6	29	16	48	17	25
8	34	6	10	7	26	58	24	28	10	31	6	7	♍	17	28	18	26
8	38	7	11	8	27	22	25	29	10	35	7	8	1	18	6	19	27
8	42	8	12	8	28	3	26	♑	10	39	8	9	2	18	48	20	28
8	46	9	13	9	29	6	27	1	10	42	9	10	2	19	27	20	29
8	50	10	14	10	29	48	27	2	10	46	10	11	3	20	6	21	♒
8	54	11	15	11	o♍	30	28	3	10	50	11	11	4	20	48	22	1
8	58	12	16	12	1	13	29	4	10	54	12	12	4	21	26	23	2
9	2	13	17	12	1	55	♐	4	10	57	13	13	5	22	5	24	3
9	6	14	18	13	2	36	1	5	11	1	14	14	6	22	45	24	4
9	10	15	18	14	3	18	2	6	11	5	15	15	7	23	24	25	5
9	14	16	19	15	4	0	2	7	11	9	16	16	7	24	4	26	6
9	18	17	20	16	4	41	3	8	11	12	17	17	8	24	43	27	7
9	22	18	21	16	5	21	4	9	11	16	18	17	9	25	23	28	8
9	26	19	22	17	6	4	5	10	11	20	19	18	10	26	3	29	10
9	30	20	23	18	6	45	5	11	11	23	20	19	10	26	41	♑	11
9	34	21	24	19	7	26	6	12	11	27	21	20	11	27	22	0	12
9	38	22	25	19	8	6	7	13	11	31	22	21	12	28	1	1	13
9	41	23	26	20	8	47	8	14	11	34	23	22	13	28	40	2	14
9	45	24	27	21	9	28	9	15	11	38	24	23	13	29	20	3	15
9	49	25	28	22	10	8	9	16	11	42	25	23	14	29	49	4	16
9	53	26	28	23	10	58	10	17	11	45	26	24	15	o♐	39	5	17
9	57	27	29	23	11	29	11	18	11	49	27	25	15	1	19	5	18
10	1	28	♎	24	12	9	12	19	11	53	28	26	16	2	2	6	19
10	5	29	1	25	12	50	12	20	11	56	29	26	17	2	39	7	20
10	8	30	2	26	13	30	13	20	12	0	30	27	17	3	19	8	21

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A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♎								
Time from noon.	10	11	12	Ascen. 1		2		3
	♎	♎	♏	♐		♑		♒
h m	gr	gr	gr	gr	m	gr		gr
12 0	0	27	17	3	19	8	21	
12 4	1	28	18	3	55	9	22	
12 7	2	29	19	4	49	10	24	
12 11	3	♏	20	5	20	11	25	
12 15	4	1	20	6	2	11	26	
12 18	5	1	21	6	43	12	27	
12 22	6	2	22	7	24	13	28	
12 26	7	3	23	8	5	14	29	
12 29	8	4	23	8	46	15	♓	
12 33	9	5	24	9	28	16	2	
12 37	10	6	25	10	10	17	3	
12 40	11	6	25	10	52	19	4	
12 44	12	7	26	11	35	20	5	
12 48	13	8	27	12	18	21	6	
12 51	14	9	28	12	59	22	7	
12 55	15	10	28	13	43	23	9	
12 59	16	11	29	14	26	24	10	
13 3	17	12	♐	15	10	25	11	
13 6	18	12	1	15	54	26	12	
13 10	19	13	1	16	39	27	13	
13 14	20	14	2	17	23	28	15	
13 18	21	15	3	18	8	29	16	
13 21	22	16	4	18	54	♒	17	
13 25	23	16	4	19	39	1	18	
13 29	24	17	5	20	26	2	20	
13 33	25	18	6	21	14	4	21	
13 36	26	19	7	22	1	5	22	
13 40	27	20	7	22	49	6	23	
13 44	28	21	8	23	37	7	24	
13 48	29	21	9	24	26	8	25	
13 51	30	22	10	25	15	10	27	

☉ in ♏								
Time from noon.	10	11	12	Ascen. 1		2		3
	♏	♏	♐	♐		♒		♓
h m	gr	gr	gr	gr	m	gr		gr
13 52	0	22	10	25	15	10	27	
13 55	1	23	11	26	5	11	28	
13 59	2	24	11	26	50	12	♈	
14 3	3	25	12	27	47	14	1	
14 7	4	25	13	28	39	15	2	
14 11	5	26	14	29	♑ 29	16	4	
14 15	6	27	15	0	24	18	5	
14 19	7	28	15	1	18	19	6	
14 22	8	29	16	2	13	20	8	
14 26	9	♐	17	3	10	22	9	
14 30	10	1	18	4	6	23	10	
14 34	11	2	19	5	3	25	11	
14 38	12	2	20	6	1	26	13	
14 42	13	3	20	7	0	28	14	
14 46	14	4	21	8	0	29	15	
14 50	15	5	22	9	2	♓	17	
14 54	16	6	23	10	6	3	18	
14 58	17	7	24	11	9	4	19	
15 2	18	8	25	12	14	6	21	
15 6	19	9	26	13	21	8	22	
15 10	20	9	27	14	29	9	23	
15 14	21	10	27	15	37	11	24	
15 18	22	11	28	16	46	13	26	
15 22	23	12	29	17	58	14	27	
15 26	24	13	♑	19	11	16	28	
15 31	25	14	1	20	27	17	29	
15 35	26	15	2	21	43	19	♉	
15 39	27	16	3	23	3	21	2	
15 43	28	17	4	24	4	22	3	
15 47	29	18	5	25	47	24	5	
15 51	30	18	6	27	10	26	6	

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A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♐									☉ in ♑								
Time from noon.		10 ♐	11 ♐	12 ♑	Ascen 1 ♑		2 ♓	3 ♉	Time from noon.		10 ♑	11 ♑	12 ♒	Ascen 1 ♈		2 ♉	3 ♊
h	m	gr	gr	gr	gr	m	gr	gr	h	m	gr	gr	gr	gr	m	gr	g
15	51	0	18	6	27	10	26	6	18	0	0	18	13	0	0	17	1
15	55	1	19	7	28	27	28	7	18	4	1	20	14	2	7	19	13
16	0	2	20	8	0	6	♈	9	18	9	2	21	16	5	9	20	14
16	4	3	21	9	1	32	1	10	18	13	3	22	17	7	55	22	15
16	8	4	22	10	3	11	3	11	18	17	4	23	19	10	21	23	16
16	12	5	23	11	4	48	5	12	18	23	5	24	20	13	2	25	17
16	16	6	24	12	6	27	7	14	18	26	6	25	22	15	37	26	18
16	21	7	25	13	8	8	9	15	18	30	7	26	23	18	7	28	19
16	25	8	26	14	9	52	11	16	18	35	8	27	25	20	35	29	20
16	29	9	27	16	11	40	12	17	18	39	9	29	27	23	0	♉	21
16	32	10	28	17	12	30	14	18	18	44	10	♒	28	25	22	1	22
16	38	11	29	18	15	20	16	20	18	48	11	1	♓	28	43	2	23
16	42	12	♑	19	17	16	18	21	18	52	12	2	2	0	♉ 0	4	24
16	46	13	1	20	19	15	20	22	18	57	13	3	3	2	16	5	25
16	51	14	2	21	21	17	21	23	19	1	14	4	5	4	27	6	26
16	55	15	3	22	23	20	22	25	19	5	15	6	7	6	33	8	27
16	59	16	4	24	25	32	23	26	19	9	16	7	9	8	39	9	28
17	4	17	5	25	27	44	24	27	19	14	17	8	10	10	43	10	29
17	8	18	6	26	29	58	25	28	19	18	18	9	12	12	42	11	♋
17	11	19	7	27	2	17	♉	29	19	22	19	10	14	14	40	12	1
17	16	20	8	29	4	38	2	♊	19	27	20	12	16	16	31	13	2
17	20	21	9	♒	7	0	3	1	19	31	21	13	18	18	20	15	3
17	25	22	10	1	9	24	5	2	19	35	22	14	19	20	5	16	4
17	30	23	11	3	11	53	7	3	19	39	23	15	21	21	52	17	5
17	34	24	12	4	14	23	8	5	19	44	24	16	23	23	33	18	6
17	38	25	13	5	16	59	10	6	19	48	25	18	25	25	13	19	7
17	43	26	14	7	19	36	11	7	19	52	26	19	27	26	49	20	8
17	47	27	15	8	22	5	13	8	19	56	27	20	28	28	22	21	9
17	51	28	16	11	24	39	14	9	20	0	28	21	♈	29	53	22	10
17	56	29	17	12	27	20	16	10	20	5	29	23	1	2	♊ 23	23	11
18	0	30	18	13	30	0	17	11	20	9	30	24	2	2	51	24	12

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A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♍									☉ in ♐								
Time from noon.		10	11	12	Ascen 1		2	3	Time from noon.		10	11	12	Ascen 1		2	3
		♍	♍	♎	♏		♑	♑			♐	♎	♉	♑		♑	♌
h	m	gr	gr	gr	gr	m	gr	gr	h	m	gr	gr	gr	gr	m	gr	gr
20	9	0	24	4	2	50	24	12	22	8	0	3	20	4	45	20	8
20	13	1	25	6	4	14	25	12	22	12	1	4	21	5	35	21	8
20	17	2	27	7	5	37	26	13	22	16	2	6	23	6	23	22	9
20	21	3	28	9	6	58	27	14	22	20	3	7	24	7	12	23	10
20	25	4	29	11	8	17	28	15	22	24	4	8	25	8	0	23	11
20	29	5	♎	13	9	33	29	16	22	27	5	9	26	8	48	24	12
20	34	6	2	14	10	49	♑	17	22	31	6	10	28	9	35	25	13
20	38	7	3	16	12	13	1	18	22	35	7	12	29	10	22	26	14
20	42	8	4	18	13	14	2	19	22	39	8	13	♊	11	7	26	14
20	46	9	6	19	14	24	3	20	22	42	9	14	1	11	52	27	15
20	50	10	7	21	15	32	3	21	22	46	10	15	2	12	37	28	16
20	54	11	8	23	16	40	4	21	22	50	11	17	3	13	22	29	17
20	58	12	9	24	17	46	5	22	22	54	12	18	4	14	7	29	18
21	2	13	11	26	18	55	6	23	22	57	13	19	5	14	54	♌	19
21	6	14	12	28	19	56	7	24	23	1	14	20	6	15	35	1	19
21	10	15	13	29	20	58	8	25	23	5	15	21	7	16	17	2	20
21	14	16	15	♉	22	0	9	26	23	9	16	23	8	17	1	2	21
21	18	17	16	2	23	0	10	27	23	12	17	24	9	17	44	3	22
21	22	18	17	4	23	59	10	28	23	16	18	25	10	18	26	4	23
21	26	19	19	5	24	58	11	28	23	20	19	26	11	19	9	5	24
21	30	20	20	7	25	55	12	29	23	23	20	27	12	19	52	5	24
21	34	21	22	8	26	51	13	♌	23	27	21	29	13	20	23	6	25
21	38	22	23	10	27	47	14	1	23	31	22	♉	14	21	14	7	26
21	41	23	24	11	28	41	15	2	23	34	23	1	15	21	56	7	27
21	45	24	25	13	29	36	15	3	23	38	24	2	16	22	37	8	28
21	49	25	26	14	0	♎	29	16	4	23	42	25	3	17	23	18	9	28
21	53	26	27	15	1	22	17	4	23	45	26	4	18	23	59	9	29
21	57	27	29	16	2	14	18	5	23	49	27	5	19	24	39	10	♍
22	1	28	♈	18	3	4	19	6	23	53	28	7	20	25	21	11	1
22	5	29	2	19	3	56	19	7	23	56	29	8	21	26	2	12	2
22	8	30	3	20	4	45	20	8	24	0	30	9	22	26	42	12	3

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Of the ECLIPSES *that will happen in the Year* 1788.

WITHIN the circuit of this year's revolution there will be but two Eclipſes, which will happen as follows:

The firſt will be an Eclipſe of the Sun, on Wedneſday the 4th day of June.

Beginning - 7h. 24m. fere, in the morn.
Middle - - 8h. 11m.
End - - - 9h. 0m.
Dig. eclipſed 3° 59′ on the ☉'s ſouthern limb.

N. B. The Moon makes the firſt impreſſion on the ſolar diſc at 96 deg. from the Sun's vertex on the right hand.

The Sun will be again eclipſed, but inviſible to us, on Thurſday, Nov. 27, ♑ at 6h 10m P. M. in Long. 8ˢ 6° 16′. The Moon's lat. 9′ S. The Sun will be centrally eclipſed on the meridian at 6h 13′, in long. 93° 15′ Weſt, and lat. 30° 30′ South.

As to the laſt Eclipſe, following the judgment of the ancients, *viz. Nil nocet Eclipſis, &c.* I ſhall be ſilent about it, as not affecting us; ſo leaving thoſe whom it may concern to mind their own buſineſs, I ſhall avoid all parade and technical terms, and therefore give my opinion briefly upon the effects of the other, as it affects the world in general; and if my deſcription be ſomewhat dark, be it remembered that an Eclipſe is my ſubject. He who paints from nature will never in the repreſentation of a violent ſtorm give you a great glare of ſunſhine. However, if there be any truth in the doctrine that the Eclipſes in the luminaries do predict calamities and mutations in the earth, as I believe the experience of ages will, concurrent with the teſtimony of ancient hiſtory, convince any rational man. Witneſs a total Eclipſe of the Moon, which preceded the ending of the Aſſyrian empire, and the eſtabliſhment of the Babylonian, A. C. 721. Another, A. C. 502, followed by the ſlaughter of the Sabines, and the death of Valerius Publicola. An Eclipſe of the Sun, A. C. 431, followed by a comet and plague at Athens. Since Chriſt, A. D. 237, a total Eclipſe of the Moon preceded a perſecution of the Chriſtians. Another, A. D. 306, in which ſtars were ſeen, and the Emperor Conſtantine died. Another, A. D. 1009, when Jeruſalem was taken

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by the Saracens. Again, a great Eclipſe of the Sun, and ſtars were ſeen, Aug. 2, 1133, when there was a ſchiſm in the church occaſioned by two Popes at once, *cum multis aliis*; not to mention thoſe which falling nearer our own times are yet in remembrance of the aged. I ſay, whoever conſiders theſe things, and pondering upon the antecedents and conſequences, will give them their due weight; he muſt, if ſound reaſon holds the balance, acknowledge that the plain evidence of times paſt will, in the ſcale of equity, overturn all that ridicule or modern ſcepticiſm can put in againſt it. Wiſely therefore admitting (as none but a fool will contradict plain facts) that the Eclipſes of the cœleſtial luminaries are foreboders of calamities and mutations in ſome part or other of this terreſtrial globe, let us proceed to ſome general judgment upon the firſt of the Eclipſes for the preſent year.

Thefts, murder, piracies, with other miſchiefs of the like nature, if Cardan's judgment may be depended upon, are like to enſue; and to the valuable remains of that great and learned man (after having conſidered the face of the heavens, and the ſituation of the planets, at the time of the greateſt obſcuration) I referred for advice. I expect divers diſagreements, and ſome other calamities, but theſe I may touch upon in my contemplations upon the four quarters of the year. However as effects are ever proportionable to their cauſes, give me leave to obſerve that this being a partial Eclipſe, the calamities above mentioned will be far from being total. Let the contemplation notwithſtanding of theſe ſigns in the heavens put us in mind of that aweful and tremendous day of the Lord, when *the ſun ſhall be darkened, and the moon ſhall not give her light, the ſtars ſhall fall from heaven, and the powers of the heavens ſhall be ſhaken:* and may this conſideration have its due effect upon our lives and actions.

HAVING been informed by ſeveral of the moſt ſenſible of my readers, that a ſketch of the hiſtory of the different profeſſions in Chriſtianity, which heretics and ſcifmatics have from time to time intruded into the Chriſtian world, even from the earlieſt ages, would be very acceptable, eſpecially to the junior part of my readers; that my laſt obſervations were well received, and that a continuation

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nuation of such remarks would not only amuse their fancies but improve their knowledge; and while it took them off from the vain novels and idle romances which too much abound in the present age, and which while they inflame the passions, full often corrupt the morals of unexperienced minds; it will, it is much to be hoped, give them a taste for a true knowledge of things, by reading none but useful history, the different manners of different states in the various parts of the terraqueous globe, whether in times present, or ages past; their laws and customs, religious and civil, and to gather from thence a chronological account of the most material transactions which have at different times been upon the carpet of this great theatre, or collect the most striking facts, is so much superior to the trash of our present novelists, that it is impossible to form a comparison. I therefore with pleasure acquiesce with the request of my friends, but confine myself to that part of Ecclesiastical History which treats of heresies and schisms, which have from time to time disturbed the Christian church; and I am the further prompted to this as I am well assured that several of my honest country readers are only acquainted with the names of certain sects, and would gladly have some knowledge of their rise and principles.

The first heretic we read of in Scripture was Simon Magus, who offered money to be endowed with the power of working miracles. Of him the ancient writers agree that he propagated his notions up and down, giving out himself to be the Messiah and the Eternal God, that he gathered together numbers of disciples and sent them into divers provinces, where they perverted many professing Christianity from the faith, by teaching them the most horrid blasphemies.

About the middle of the second century sprung up an infamous sect, who stiled themselves ADAMITES, from imitating Adam's nakedness before the fall; their founder was one Prodicus, a disciple of Laprocrates. They supposed themselves to be as innocent as was Adam before the fall, the consequence of which delusion was a belief that clothing was absolutely needless, and the sexes therefore met together quite naked in all their public assemblies, looking upon themselves, when divested of their garments,

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garments, as the image of God, seeing in that state male and female created he them. Of these heretics St. Epiphanius says, they met together to satiate their most beastly lusts; and Clemens Alexandrinus reports, that when the candles were put out they fell to the most promiscuous copulation. It appears that these heretics became obnoxious to the civil power, and were presently crushed. The same heresy however revived in Flanders in the fifteenth century, under one Picard, a native thereof, who retired with his followers to the mountains of Bohemia, who were all at last seized at Amsterdam.

ARIANISM is an opinion which has long spread itself through the Christian world. Arius was a presbyter of the church of Alexandria, a man of abilities, and much given to disputing on controverted points. He had, as history informs us, set himself up as candidate for the bishopric of Alexandria, but lost his election. Alexander, who had succeeded to the election of bishop in opposition to Arius, preached much upon the doctrine of the Trinity, affirming that there was but one substance in the Father, Son, and Holy Ghost, and that these three persons were but one. Arius having taken a school taught his disciples that a time had been when the Son was not created; that he was like the angels, liable to commit sin; that being united to human flesh he supplied the place of a human soul, and consequently was subject to pains, and all sorts of sufferings, in the same manner as men.

Alexander having ineffectually used all possible means to reclaim him from these tenets, he and his followers, at a council of one hundred bishops of Egypt and Lybia, were degraded from their orders, and excommunicated out of the church.

Afterwards, when Constantine the Great called the first general council of Nice, at which were present three hundred and eighteen bishops, besides a vast concourse of other church officers, and among the bishops several from Britain; Arius when summoned to appear before this council boldly supported his opinion: the sentence of excommunication pronounced by Alexander however was confirmed, and a decree from the Emperor excluded both him and his followers from all places whether civil or ecclesiastic, and sentenced them to perpetual banishment.

In

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In the ſpace of about three years after we however find that all the Arian biſhops were reſtored to their ſees, and Arius himſelf likewiſe recalled, who being permitted to wait upon the Emperor, he preſented a confeſſion of his faith, ſo artfully compiled that Conſtantine was reconciled. This ſo enraged Athanaſius, who was then advanced to the biſhopric of Alexandria, that he refuſed to admit either him or his followers; but the Arians having many friends at court, Athanaſius was ſent into baniſhment. The church of Alexandria however refuſed ſtill to admit Arius.

He notwithſtanding applied once more to the Emperor, and preſented a ſecond confeſſion drawn up in ſuch terms that Conſtantine was ſatisfied, and ordered Alexander, Biſhop of Conſtantinople, to admit him into his church the next day; but the night before Arius died. Whether his bowels guſhed out, as his enemies report, while he was eaſing nature; or whether he was murdered by ſome of the orthodox party, as his followers have advanced; or whether by being ſpent with fatigue, as others have wrote, we will not determine. His tenets however did not die with him, but were countenanced by many of the Emperors after the death of Conſtantine. Diſputes ſtill ran high amongſt the Orthodox and the Arians, nor did the recalling of Athanaſius from his baniſhment abate the violence of a perſecuting ſpirit; but they went on excommunicating and anathematizing each other. The Orthodox teaching that the Trinity in Unity and the Unity in Trinity ought to be worſhiped, and making this the ſtandard of the Catholic faith; while the Arians held that there was one God, the Father of all, that the Son (however highly exalted) was a created being, and the Bleſſed Spirit was a ray or emanation of the Great and Holy One who inhabits eternity.

After the ſeventh century we hear little of this hereſy which now ſeemed to lie dormant till the time of the Reformation, when Michael Servetus, a Spaniſh phyſician, revived it, and was burnt alive at Geneva for his profeſſion.

If Arius thought proper to propagate his opinions, others of his followers took the ſame privilege; and not only ſo, but wherein their opinions varied from his, thought they had

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had as great a right to diſſent from him, as he had to diſſent from thoſe who ſtiled themſelves the Orthodox church. Among theſe were the *Semi Arians*, who differed a little in ſentiment concerning the doctrine of the Trinity, by uſing more moderate modes and expreſſions than he in the heat of his argument had done; and maintaining that Chriſt was not of the ſame ſubſtance with the Father, but of a ſubſtance like him. Eudoxus, Biſhop of Conſtantinople, made ſome refinement upon Arius's doctrine, and became the head of a party called *Eudoxians*.

The *Eunomeans* were another branch of the Arian hereſy, founded by Eunomius, Biſhop of Cyzicus, who oppoſed the Orthodox with great ſeverity, and became the head of a party who differed in very few points from the original Arians, only they re-baptized all who entered into their community.

Euſebius, a man of great reputation for learning, was a zealous oppoſer of the Orthodox; this was about the year 326, and was the head of a ſect called the *Euſebians*. This man was ſome time Biſhop of Nicomedia, and afterwards of Conſtantinople. At the inſtigation of the Catholic Biſhops he was baniſhed, but by the intereſt of the Arians recalled. He was the declared enemy of Athanaſius, who oppoſed the Arians with more virulence than any other of the Chriſtian fathers. He prevailed upon Conſtantine's ſon, Conſtantius, to patroniſe the Arians, and in the year 341 a council aſſembled at Antioch by the Emperor's order, which declared the Arian hereſy to be the eſtabliſhed religion of the empire.

Macedonius, Biſhop of Conſtantinople, was the inventor of another ſect of Arians. This man not only denied the divinity of Chriſt, but alſo exclaimed heavily againſt all thoſe who worſhiped the Holy Ghoſt, whom he ſaid to be a created being, dependant on the will of the Almighty in the ſame manner as men. His hereſy for ſome time prevailed greatly in the Chriſtian church.

The laſt I ſhall mention is Pholinus, Biſhop of Sirmich, who went ſo far as not only to deny the divinity of Chriſt, but alſo to declare that God himſelf was not immenſe. Him the Arians themſelves diſcarded, and he was excommunicated in a council held at Milan in the year 346. Of other ſects of note we will treat (God willing) in our next.

WE

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WE will proceed to a conſideration upon the four quarters, proceeding to the beſt of our abilities according to the rules of the ancients; and as the year commences by what time the Sun has run his firſt decanade in Capricorn, or nearly ſo, reaſon adviſes to purſue our ancient cuſtom, and begin with

THE WINTER QUARTER.

THIS quarter begins Dec 21, 1787, at near nine at night. The ſcheme of the heavens upon ☉'s arrival on the verge of ♑, is as follows: 8 deg. of ♉ culminate, and 23 deg. fere of ♌ aſcend. ☉, ☿, ♀ and ♃ are at this time under the earth, or what the ancient Aſtrologers were wont to call *ſub terra*. ♃ and ♂ are retrogade, which I am ſorry to ſay are not very good prognoſtics; and herein I could bring for my vouchers many reſpectable names of high antiquity, but I forbear as I conſider the ſmall limits of three ſheets, and the quantity of matter therein contained. I will only ſay, that in ſtate affairs it denotes deep hidden myſteries and dark counſels; in private life a releaſe from the miſeries of this world to ſome, eſpecially the aged; and ſome diſeaſe (I ſay not what) as a preparatory warning to others. The rich muſt die as well as the poor, the Lord is the maker of them all. I beſpeak no man's death; but before the time the Sun enter Aries if ſome man of conſequence in either the ſtate, or one of the liberal profeſſions, departs not, I am much miſtaken. We ſhall have in this quarter many doubts, and much news expected from abroad. Much diſputation at home. May God preſerve unanimity in the Britiſh councils. There is I believe a work going forward upon the earth which time muſt ſhew, and it is not for us but our ſucceſſors to ſee into the conſequences.

OF THE SPRING QUARTER.

THIS quarter commences what time the cœleſtial charioteer makes his firſt entrance upon Aries, where the Ecliptic croſſing the Equator he diſpenſes to the world equal day and equal night, and the ſcheme of the heavens for that time you have as follows:

Schæma

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In the above ſcheme wherein 12° 50′ of ♏ aſcend, and 29 deg. of ♌ culminate, we have more to look upon than to ſpeak about. There are things which a fool cannot tell if he would, nor would a wiſe man if he could. He who has looked into the grand arcana of hidden myſteries, and knows the how, the where, and the when (if ſuch a man there be) is a much more intelligent being than I profeſs myſelf. True it is as the Poet ſays,

All nature is but art, unknown to thee;
All chance direction, which thou canſt not ſee.

It behoves the true Aſtrologer therefore to be modeſt. The direction of God often brings about purpoſes far beyond the ſcanty rules laid down to ſhort ſighted man; for the wiſeſt and beſt of us may truly ſay, *Quid enim eſt familiarius homini quam hallucinari ac errare.* I preſume not where I find my abilities are inſufficient, nor attempt to open the door with a falſe key, leſt I ſhould ſpoil the lock of my underſtanding.

THE SUMMER QUARTER.

ÆSTAS, the Summer quarter, always commences when our luminary the Sun enters the firſt point of ♈, (the place of the Sun from the Earth being then verging

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verging upon ♋) making our longeſt day and ſhorteſt night, and which will this year happen on Friday the 20th of June, at eight in the evening; when, according to the ſcheme of the heavens for that juncture, 3 deg. of ♏ will culminate, and 27° 47′ of ♐ aſcend. The application of Sol to a conjunction with Jupiter, is a friendly token; and although the planets, like the dominions they repreſent, are not always to be ſeen with the moſt amiable aſpect, yet I hope peace and plenty, through the bleſſing of the Almighty, will be the lot of our Britiſh Zion.

THE AUTUMNAL QUARTER.

THE Autumnal or Harveſt Quarter commences what time the Sun toucheth the firſt ſcruple of the Equinoctial ſign Libra, or more properly when the Earth enters upon Aries; which this year will be on the 22d day of September, at 42 min. after 9 in the morn. They who would chuſe a ſcheme of the heavens on that juncture, may be informed that 28° 41′ of ♊ aſcend, and 23° 41′ ♑ culminate; that the ☽ in the 12th, a cadent houſe, is ſeparating from a ✱ with ♀, and applying to a □ with ☉, and a △ with ♄; and that all the planets excepting ☽ and ♄, who are retrograde, are *ſub terra*.

It has been an old obſervation among the ſtudious in the celeſtial art, that when Saturn changes his ſign (as he does this year in February) he transfers miſchief from one people to another; the verity or falſhood of which they who look in the hiſtory of the preſent year will have an opportunity of determining. Thoſe miſchiefs appear to be rather magnified than diminiſhed by his retrogradation, but *ſi Deus nobiſcum, qui contra nos.* The light ſhall ſhine upon thoſe who ſit in darkneſs, and wonderful changes ſhall be upon the earth, before the diſſolution of all things. But although the end be not yet there appear in embrio ſurpriſing revolutions, which ſhall by degrees, according to the ſecret counſels of the Moſt High, bring about the prophecies of the ancient Seers. Then ſhall Time breathe out his finis, and diſſolve in eternity.

DEO SOLI GLORIA.

FINIS.

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Old Poor Robin.

An Almanack.

COMPOSED

(According to the most modern Mode of Compofition)

ON

A Variety of Subjects, both Ancient and Modern,

And for the Reader's further Entertainment,

Part in Profe, Part in Verfe; Part Narrative, ‖ Part Contemplative; Part Serious, Part Comic;

FOR THE

Entertainment and Improvement of the human Mind, and adapted to the meaneft Capacity.

BEING

A *new* improved Edition of a very *old* Ephemeris, for the Year of our Lord 1788, Being the One Hundred and Twenty-fixth Edition; and Biffextile or Leap Year,

And the Thirty-fixth Year of the New Stile in Great-Britain.

Written by POOR ROBIN, Knight of the *Burnt-Iſland*, and a Well-Wiſher to the MATHEMATICKS.

1788

He ſtill begs of Cuſtomers near or afar none
Will buy the Poor Robin that's publiſhed by
And now in particular begs you'll take Care
That you are not put off with the Birminghan
There's Moore's, and ſome others likewiſe they pretend to,
Which Time and few Readings will ſoon put an End to:
Let him who deſpiſes all Counterfeits call
For the Almanacks publiſhed at Stationers-Hall.

LONDON,

Printed for the Company of Stationers:

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1788. [Price 9d. ſtitched.]

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By Desire of my numerous Readers on the Sea Coasts, I insert the following: being a plain and easy TABLE, shewing the Time of High Water.

NOTE, That the Moon's Age being taken notice of in the TABLE, you have the Time of HIGH WATER at all the undernamed Places.

Queenborough, Portsmouth, Southampton, Kentish-Knoak, Leith, Beachy, Isle of Wight, Dunkirk, Candado, Coast of Flanders, at the Spits and Dover Pier.

Gravelend, Downs, Blackneis, Romney, Thanet, Scilly Half-tide, North-Cape before Gequit, and between Calais and Dover.

London, Tinmouth, Hartlepool, Amsterdam, Whitby, Dort, Gascoin, West of Irelnad, at Groin, at Rotterdam, and in Robin-Hood's Bay.

Newcastle, Humber, Falmouth, Severn-mouth, at the Spurn between Scilly and Lizard, Ramsey, Dartmouth, Guernsey, Torbiv, St. Malo's.

Plymouth, Antwerp, Hull, St. David's, Holms of Bristol, Lundy, St. Paul's, Salcom without Uthant, at Waterford, and at Lynn Half-tide.

Bristol-Key, Weymouth-Key, Aldborough, Foulness, Lims, the Start before St. Nicholas, Sedmouth, in the Channel, between Foy and Falmouth.

Yarmouth-Road, Harwich, Calais-Road, Dover, Cowes, Caen, the Frith, South-Foreland, St. Helen's, Coast of Normandy, and Picardy.

Hague, Peter-Port, Dublin, between Beachy and the Isle of Wight, Yarmouth, St. Magnus's Sound, Combay, without the Caskets in the Channels.

D's A.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.
1	16	12	48	2	18	3	48	6	3	6	48	7	33	11	18	9	3
2	17	1	36	3	6	4	36	6	51	7	36	8	21	12	6	9	51
3	18	2	24	3	54	5	24	7	39	8	24	9	9	12	54	10	39
4	19	3	12	4	42	6	12	8	27	9	12	9	57	1	42	11	27
5	20	4	0	5	30	7	0	9	15	10	0	10	45	2	30	12	15
6	21	4	48	6	18	7	48	10	3	10	48	11	33	3	18	1	3
7	22	5	36	7	6	8	36	10	51	11	36	12	21	4	6	1	51
8	23	6	24	7	54	9	24	11	39	12	24	1	9	4	54	2	39
9	24	7	12	8	42	10	12	12	27	1	12	1	57	5	42	3	27
10	25	8	0	9	30	11	0	1	15	2	0	2	45	6	30	4	15
11	26	8	48	10	18	11	48	2	3	2	48	3	33	7	18	5	3
22	27	9	36	11	6	12	36	2	51	3	36	4	21	8	6	5	51
13	28	10	24	11	54	1	24	3	39	4	24	5	9	8	54	6	39
14	29	11	12	12	42	2	12	4	27	5	12	5	57	9	42	7	27
15	30	12	0	1	30	3	0	5	15	6	0	6	45	10	30	8	15

The foregoing Table explained.

NOTE, that the Moon's Age being taken notice of by the Rule in this TABLE, you may obtain the Time of HIGH WATER at all the Places abovenamed. Observe, When the Moon is one or fifteen Days old, it is HIGH WATER at London, Tinmouth, Hartlepool, &c. at 3 o'Clock, and 48 Minutes past. Observe the same of the rest, which is plain to the meaneſt Capacity. The Day of the Moon's Age you have in the fixth Column of every left-hand Page of the Calendar.

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PREFACE.

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* * * * So far St. Chryſoſtome. Tome 4. Pagina, 119.

In writing down the above Learned Quotation, I had (you muſt underſtand) two Doubts aroſe in my Mind. The Firſt was, whether my Compoſitor had any Greek Types; and the Second was; ſuppoſing he had, whether my Reader would underſtand them.

I ſoliloquized with myſelf thus; after the Manner of the Immortal *Shakeſpear*.

" To *have*, or not to *have*, that is the Queſtion".

For (thought I), If my Compoſitor has theſe Types, and my Reader is not capable of comprehending them, there is ſo much good Greek thrown away. Again, ſaid I to myſelf.—(for I had a Mind to go to the Bottom of the Affair) ſuppoſing my learned Reader underſtands theſe Pothook Characters; yet, if my Compoſitor has them not; it comes to the ſame Point. Moreover, put the Caſe, that neither my Reader nor my Compoſitor are capable of the Taſk?—Why,—in that Caſe all is thrown away.—However,—to take the Argument by all its Handles,—and View it in every Point of Light.—Suppoſing my Compoſitor borrows a neat Greek Type from the Printers of one of the Univerſities; as I dare ſay, either of them can very well ſpare them. Admit likewiſe, that my kind Cuſtomers are (to uſe the Language of the Law) *All* and *Every* one of them, as well verſed in the Language of Ancient Grecce as our modern Scolds are in the Language of Billingſgate, yet the Sublimity of that divine Quotation would only make them wiſh for more: Grant them more—they'll want more ſtill, and as I am confined to three Sheets of Paper; the more they have of St. Chryſoſtome, the leſs they will have of Poor Robin. So I thought it the wiſeſt Way to refer the learned Part of my kind Readers to the Book itſelf; and as for the others, I ſuppoſed this Method would be equally uſeful. Thus, while I ſatisfied my Scruples in a Matter of ſuch Conſequence by the moſt nice Logical Reaſoning, I at the ſame Time had an Opportunity of exhibiting to the World a notable Sample of my own Sagacity and deep Penetration.

Beſides, none but Hackney Horſes, and thoſe ſtupid kind of Aſſes, the Hackney Writers, chooſe always to go in the old beaten Path. True Genius is always ſtriking out a freſh Line. Any Blockhead may begin with, *Worthy Reader*, *Courteous Reader*; if he be in a canting Strain, or in the Preface to a Paſtoral with *Gentle Reader*; but none but Poor Robin ever thought of beginning a Preface with

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* * * * So far St. Chryſoſtome. Tome 4. Pagina, 119.

PREFACE.

Now as nothing in these Days of Sapience in which we now live, sells so well as a Thing that is new and out of the common Road, which indeed may command almost any price; so I heartily pray that my good Masters the Worshipful Company of Stationers may never see this Preface of mine till the Whole is printed off; and [Price 9d. stitched.] appears at the Bottom; lest taking the Advantage of my wonderful Sagacity in Preface Writing; they should be tempted to the Threepenny Disadvantage of all my kind and loving Customers to conclude the Title Page as follows:

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And sold by R. HORSFIELD at their Hall in Ludgate-Street,
[PRICE ONE SHILLING.]

I could say much more upon this delectable Subject; did not my well known Modesty forbid me; lest I should be thought any Way pompous. So without any further Ceremony, or any Dedication to any Lord or Nobleman whatever; whether it be Lord Log; Baron Beetle; the Marquis of Mapleton; Sir Anthony Ash; Sir Timothy Timberhead; Sir Christopher Crabtree; Sir Solomon Sapscull, &c. &c. &c. nor to any Lady of what Rank or Dignity soever: Whether it be the Dutchess of Devilship; the Countess of Cuckoldom, the Lady Loverule, &c. &c. &c. or any Lady whatever, not excepting my own Lady; who taking her Virtues and Vices all into one Sum or Aggregate, (as the Arithmeticians call it) I take to be a Match for them all put together.—Neglecting all these I say, and looking upon the first as a Wooden Affair, and the last as Women's Matters; I decline all Dedication whatever.—So desirous to blend the *Dulce* with the *Utile*, in the best Way and Manner I possibly can, I once more begin my

PREFACE.

I had just written the above inserted, when in came my good old Friend and Fellow-Labourer in the Republic of Letters, Mr. Index; he had been to see how a Gentleman of our Order went on, who was employed to write a History of the World; and in Order that his Studies might not be interrupted, his generous Patron had fixed him in an excellent Bacon Country at an odd House upon a wide Common; and paid for his eating and Lodging not less than Three Shillings and Sixpence per Week. Moreover, the said Gentleman,—that is the Bookseller his Employer, of his great Generosity allows him Eighteen Pence per Week extra, merely for the Trifles of Drink, Snuff, Tabacco, Pipes, Washing, Clothes, &c. and that he may appear like a Scholar, he has a Cartload of Books I do assure you sent down upon the Subject; and so he picks and chooses as his Judgment direct. Gods speed him, said I: I give

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give him Joy; I wish all Authors were as well provided for as him. True Sir Robert, says my Friend Index; I will give you a Story if you please. He had just got upon the Threshold of his Story, and spread out his Arm as if he was going to knock at the Door of my Attention; when casting his Eye upon the Beginning of my Preface, he said in surprize, Pray Sir Robert, have you got the whole Works of that great Man: he was a surprizing Man. He was indeed, said I.—What Patience said Index that great Man must have had, to have wrote so much.—More, replied I, than ever his Purchasers had to read it.—Oh! says he, that Man is useful now he is Dead.—That I am an Evidence to, quoth my dear Lady, for the Man we buy our Groceries of has lapt up his Sugar, his Tobacco, his Tea, his Snuff, his Soap, his Candles, &c. &c. in nothing else for this half Year. We have had two or three Score of his Leaves, which, when my Husband has read over, we put them into an old Box, and take them out as we want them; I am sure when our little Jacob was troubled with a violent Lax, I should not have known what to have done without them; but come, Sir, I will shew you another Use; sit you down and take a Pipe of my Husband's Tabacco, while I fetch you one of his Leaves to light it with.

I thought it was prettily said of my Wife.—Index thought otherwise; He refused the kind Offer; he signed, he shaked his Head, and spoke thus.——Alas! what will this wicked World come to at last; how degenerate must the present Age be, when so grave, so learned, so pious, so great a Pillar of the Church, as St. Chrysostome was in his Day, shall have his learned Labours so neglected, and his divine Documents applied to such base Purposes.——What then, said my Lady, he wrote Divinity.—Undoubtedly, says Index.—Good faith I thought so, says she, by the Cheapness of it. Why an Ounce of Roderick Random is worth a Pound of it, and a Chapter of Tristram Shandy will buy you a Cartload; nay, I have even seen a Poor Robin lapt up in a Piece of an old Sermon.—All this he readily complied with; nor did he seem to regret any Thing but the Neglect of the Holy Father St. Chrysostome. I was somewhat perplexed at this Humour of his at the first: but afterwards found that he had formerly wasted a good Deal of his Time in writing of Latin Annotations to that Father's Works; and shrewdly concluded, that if the Text was neglected, what a plague must become of his Marginal Notes.

I made however a trifling Apology; saying that the small Attention paid in the present Age to the Classics made Greek and Latin neglected, and that Homer and Virgil as well as St. Chrysostome seemed at this Day to be fairly divided between the Universities and the Pastry Cooks; that in the days of Oliver Cromwell, when a heavy Head bespoke a heavenly Disposition, and Impudence combined with Ignorance was a sure Mark of

Inspira-

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Inſpiration.—While the biggeſt Rogues made the biggeſt Noiſe about Regeneration, and the Holy Ghoſt was always ſuppoſed to ſpeak with a Twang through the Noſe; ſuch Heaps of Nonſenſe in the Divinity Line came forth daily as has given the Nation a Surfeit ever ſince. But come, my dear Friends, ſaid I, ſit down.— He was about to reach a Chair when my Wife ſtarting up cried out in a hurry.—Stay, Sir, that Chair is rotten; I will fetch you a good ſtrong three-footed Stool out of our beſt Parlour.—Beſt Parlour, ſaid I to myſelf: Good Lord! how eaſy it is to ſpeak the Truth.—Well may it be the beſt Parlour, when we have but one.

While my Wife was gone, Mr. Index took the Advantage to ſay ſome civil Things about her.—Now MY LORD, or YOUR GRACE, or whatever may be your Title; Your Worſhip knows very well, that every Body loves to hear his own Things commended; eſpecially, if it be a Thing that he particularly likes.—Such was the Caſe with me.—Your Lady, Sir Robert (ſays Index), appears a fine Woman; I read in her Countenance and in her Manner ſo much good natured Taciturnity, as would put audacious Loquacity to the Bluſh.

Heaven bleſs her Soul, ſaid I, and bliſter the Body of him that does not ſay Amen to it.—Maſter Index, I will tell you what—During Seven-and-Thirty Years Cohabitation together, from the Time ſhe went to ſleep to the Time ſhe awoke, never has that dear Woman given me an angry Word, excepting now and then in a Dream.—Amazing, quoth Index.—My Wife came in.— Now, from where I ſaid—*He was about to reach a Chair*, to thoſe laſt Words *my* Wife *came in*, I would have you to look upon as a very beautiful Digreſſion: neither a Line too long, nor a Syllable too ſhort, as the Narrative is natural, very properly placed, and gives Index an Opportunity to form a Reply to my Apology; which he did in Manner following.——Your Obſervation, ſaid he, however truly it may picture out thoſe Days of Folly and Enthuſiam, methinks will by no Means ſuit Holders forth of the preſent Age, who from Hervey's Meditations, the Beauties of Weſley, and other Books of that Sort, have not only mended their Language, but even ſome of them have at leaſt endeavoured at Method.

I was going to return an Anſwer, when my Wife's Jaw (which is a deviliſh deal nimbler than mine), opened firſt, and took the Words out of my Mouth.—Method? quoth ſhe—Pray, Huſband, repeat that Sermon you heard in your laſt Stroll.—I mean Excurſion.—By all Means, ſays Index.—I begun.

Now, Gentle Reader, don't call this an idle Romance of my own Brain; I do ſolemnly aſſure you, it is an abſolute Fact. I begun thus: In a large Town in a midland Country, where I ſlept that Evening, as I was journeying towards the Metropolis; underſtanding that there was to be a Lecture, at a Con-

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Conventicle, not far from my Lodging, Curiosity led me to go. On my Entrance, the Text was just taken; whether out of the Old Testament, or the New Testament, or no Testament at all, it matters not a Farthing, as it only served to lug in the Discourse which was as follows:——The Preacher, after having fully displayed the Whites of his Eyes to his Congregation, and turned the Pupil backward, as if he was looking down his Throat for inward Lights, declared to his gaping Audience, that he was going to hold forth the Blessed Redeemer, as a Friend to all; but, especially to his Saints. And in Order to do it methodically, he resolved to do it alphabatically; so he immediately fell foul upon Great A. I will not trouble you with his curious Remarks upon each Letter; but only observe, that in A Christ was an allsufficient Friend; in B he was a bountiful Friend; in C he was a constant one, and a divine one in D; he was an everlasting Friend in E, while F stood for a faithful Friend, and G for a gracious one. In H he was a heavenly Friend, while in I and J he was not only an innocent Friend, but also a just one. He was a kind Friend in K, and a loving one in L. In M he was a merciful Friend, a necessary one in N, while in O he was an officious one; and in P, a powerful one. In Q, he was a quenchless Friend, and a rich one in R. He was a Soul satisfying Friend in S; while in T he was a true one; and in U and V, he was not only a useful Friend, but also a valiant one, and the more to be estimated, because, that in W, he was a wise one. X turned out to be a heathenish Letter, and therefore of no use to a Christian Audience; but Y and Z, were precious Letters, because he was a Yearning Friend in Y, and in Z, he was a zealous one. He concluded with observing, that he had been at all this immense Pains for the Sake of Grace-seeking Souls, that let their Meditations begin with what Letter they would, they might find somewhat to assist them.*

There, says my Wife, there is Method with a Vengeance. What think you of this?—Oh, Madam, says Index, this is built entirely upon the old Plan of A, Apple Pye; B bit it, C cut it, &c. But really your Spouse has an excellent Memory.—True, said she, where there is Nonsense concerned; had it been a Discourse of Barrow's or Tillotson's, he would never have brought Home three Words.—Conscience, who takes all Opportunities to give a Man a slap on the Face, backed her Assertions; so self convicted I sat silent.

The Discourse now turned to other Subjects equally edifying, till the Evening Shades began to lengthen.

"Jam summa procul villarum culmina fumant
"Majoresq; cadunt altis de Montibus umbræ." Virg.

So after the usual Compliments, I bad my Friend Index, as I do all my kind Readers, a hearty Farewell.

* The Text was, *There is a Friend that sticketh closer than a Brother.*

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JANUARY hath xxxi Days.

New Moon	8	Day at	11 Hour 54 M. Morn.
First Quarter	16		9 — 57 M. Morn.
Full Moon	23		1 — 59 M. Morn.
Last Quarter	30		1 — 15 M. Morn.

⊙ enters ♒ 20 D 5 H. 48 Min. Morn.

M D	⊙ Decl. South.	
1	23°	1′
6	22	30
11	21	48
16	20	56
21	19	54
26	18	42

1	21	T	Circumcision.	
2	22	W	Day 7h. 52m. lon	To you the Muſe, as heretofore,
3	23	T	♄ ſets 7h 47m. af.	Preſents her Compliments once more;
4	24	F	♂ ri. 3h 42m. aft	So as her Ladyſhip has ſent them,
5	25	S	Old *Chriſt. day*	The ragged Knight does here preſent them;
6	26	S	Epiphany.	And ready at your Worſhip's Call,
7	27	M	*Plow Monday*	She humbly hopes to pleaſe you all;
8	28	T	*Lucian.*	And conſcious ſhe has done her beſt,
9	29	W	Twili en. 6h 6m.	In earneſt ſome, and ſome in jeſt,
10	30	T	♄ ſets 7h 18m. af	She ſits at eaſe all bliſh and gay,
11	31	F	♂ riſ. 2h 47m. aft	Nor heeds whate'er the World may ſay.
12	Ja	S	Old *New Y. day.*	If Sylvia thinks ſome Lines are looſe,
13	2	S	1 S. aft. Epiph.	Let Roger take them for his Uſe;
14	3	M		So many Humours has the Town,
15	4	T	Day 8h. 14m. lon	With one or t'other all goes down,
16	5	W		And oft what in the Town dont ſell,
17	6	T	O. twelfth Day.	May fit the Country very well;
18	7	F	Q. C. b. day kept	Where Milkmaid Mary, plain good Creature,
19	8	S		Deſpiſing Prudes ſticks cloſe to Nature;
20	9	S	Septuageſima	And where a Story ſuits her Taſte
21	10	M	*Agnes*	Can freely laugh, and yet be chaſte.
22	11	T	*Vincent.*	Gods ſhall my Muſe tye up a Leg,
23	12	W	*Hillary T. beg.*	And go from Door to Door to beg;
24	13	T		O, when ſhe's run a little hard on
25	14	F	Conv. of St. Paul	A Prude, go ſtoop to aſk her pardon.
26	15	S		Nay if ſhe did I'd ſoon forſake her,
27	16	S	Sexageſima	And bid the Ghoſt of Bunyan take her.
28	17	M	Day br. 5h. 35m.	Of Rhimes my Book ſhould firſt be wanting,
29	18	T	Twili. en 6h 26m	And ſhe ſhould get her Bread by canting.
30	19	W	K. CHA. I. M.	
31	20	T		

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Observations in JANUARY.

M	Clock
D	bef. ⊙
1	3′ 59″
6	6 17
11	8 23
16	10 14
21	11 46
26	12 59

Whether in Penitence and Pray'r,
Or finful Luſts we ſpend the Year;
As old Years paſs ſo new begin,
We drink them out, we drink them in.

M. D.	☽ ri. & ſ.	⊙ ri. & ſ.	☽ Age		
1	1 m	19 viii.	iii	24	None of the Nine will I invoke, For any Verſe that heres is ſpoke.
2	2	30 4	56	25	
3	3	39 4	56	26	
4	4	42 3	57	27	
5	5	40 2	58	28	
6	6	32 1	59	29	
7	7	15 vii.	iv.	30	
8	☽ ſets	0	0	N	
9	5 a	23 59	1	2	Guſman Old Hoyle Tarquin Nero Diable.
10	6	30 58	2	3	
11	7	39 57	3	4	
12	8	47 56	4	5	
13	9	57 54	6	6	
14	11	8 54	6	7	
15	Morn	53	7	8	
16	0	21 52	8	9	Beſt Phyſick now to give relief Is Chines of Pork, and Ribs of Beef.
17	1	39 51	9	10	
18	2	54 50	10	11	
19	4	1 48	13	12	
20	5	16 47	14	13	
21	6	11 46	16	14	
22	6	53 44	17	15	
23	☽ riſes	43	19	F	
24	6 a	50 41	20	17	G Gurton
25	8	13 40	22	18	D Quixot.
26	9	34 38	23	19	Lazarillo.
27	10	50 37	25	20	T. Tram
28	Morn	35	26	21	Gibbet
29	0	5 34	28	22	George.
30	1	16 32	29	23	Fanaticks
31	2	25 29	31	24	Holliday.

Our laſt Remark in the monthly Part of this celebrated Ephemeris, was that of Griffin's Reply to a plain Queſtion upon a knotty Point. What is your Wiſh? ſays Trigon. I wiſh, quoth Griffin, you would ſtir the Tankard. I underſtand that a many of my kind Readers apprehended that my Tale, like my Barrel, was either out of run to the Dregs; and that for the preſent Year I ſhould brew a freſh one. But in this they are much miſtaken; I had but juſt broke the Marrowbone of the Argument, cut my Subject into proper Slices, and was going to give you as fine a Treat as ever Connoiſſeur or Critick would wiſh to ſit down to.

Certainly the Oddity of Griffin's Reply put a momentary Stop to the Diſcourſe; but that inſtead of finiſhing the literary Skirmiſh, was an Incitive to a fair pitched Battle, as it gave either Party Time and Opportunity for a Reinforcement, and to range the pro's and con's in a regular Order, according to the beſt Rules and Manœuvres from Time to Time made Uſe of in all logical Engagements.

Mrs. Griffin likewiſe had put back the Border of her Cap, and ſpread the Cavity of her Ears, that ſhe might not loſe a Word of ſo intereſting a Diſcourſe.

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FEBRUARY hath xxix Days.

M D	☉ Dec. south.
1	17 5
6	15 36
11	14 1
16	12 19
21	10 33
26	8 42

New Moon 7
First Quarter 14
Full Moon 21
Last Quarter 28
} Day at { 6 Hours, 53 M. Morn. / 8 — 56 M. Aft. / 0 — 49 M. Aft. / 8 — 16 M. Aft.

☉ enters ♓ 18 Day, 9 Ho. 38 Min. Aft.

1	21	F	
2	22	S	Purifi Can. Day
3	23	F	Quinquagesima
4	24	M	On Mor. of Purif
5	25	T	Shrove Tu. Day
6	26	W	Ash Wednesd.
7	27	T	
8	28	F	Day br. 5h. 23m
9	29	S	In 8 days of Purif
10	30	F	Quadragesima
11	31	M	Cam. T. div. n.
12	Fe	T	Hil. T. ends,
13	1	W	Ember Week
14	3	T	Valentine
15	4	F	
16	5	S	☿ Stationary
17	6	F	2 Sun. in Lent.
18	7	M	Day 10h 8m. lon
19	8	T	
20	9	W	♄ sets 5h. 1m. af.
21	10	T	☿ ri. 5h. 4m. aft.
22	11	F	Day br. 4h. 55 m
23	12	S	
24	13	F	3 Sun. in Lent.
25	14	M	
26	15	T	
27	16	W	Day inc. 2h 53m
28	17	T	Day br. 4h. 47m.
29	18	F	Twil. en. 7h 15m

Scribere jussit Amor.

HOBBINOL'S COMPLAINT.

'Tis true I'm in love with a little Bitch Whelp
Who always is scolding and snarling:
And yet for the Blood of me never could help
To pronounce the young Devil my Darling.

Old Candlemas day.

If I offer to sing, she's the Theme of my Song,
Though fickle she is as the Weather;
And last Night I wrote her a Letter as long
As my Leg and my Thigh put together.

So soft were my Strains, and my Language so full;
So pressing! so rich! so delighting!

St. Matthi. Pr. Adol. F. born.

So tender it was that I bounc'd like a Bull,
And roar'd all the while I was writing.

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Obſervations in FEBRUARY.

Now Years we hope will better be,
But February lets us ſee,
Now ſober January's paſt,
'Tis pretty much as was the laſt.

D	Clock bef.	⊙
1	14	1
6	14	30
11	14	29
16	14	28
21	13	59
26	13	14

1	3	M	27	VII. IV.	25	
2	4	21	25	35	26	Damaris.
3	5	6	24	36	27	German
4	5	42	22	38	28	Princeſs.
5	6	13	20	40	29	
6	6	36	19	41	30	
7	☽	ſets.	17	43	N	
8	6	A	3	0	15	45	2	This Month
9	7	42	13	47	3	is noted for
10	8	54	11	49	4	Love's Paſſion;
11	10	6	9	51	5	And Valentines are all
12	11	20	8	52	6	the Faſhion.
13	morn.		6	54	7	
14	0	36	4	56	8	
15	1	49	2	58	9	
16	2	57	VI.	V.	10	
17	3	57	58	2	11	Saturday
18	4	44	56	4	12	Jack.
19	5	21	54	6	13	K. of Club
20	5	51	52	8	14	Harry
21	☽	riſ.	51	9	F	Martin.
22	7	A.	7	49	11	16	Marplot.
23	8	23	47	13	17	Madge.
24	9	41	45	15	18	Hannam.
25	10	56	43	17	19	Du Vall.
26	morn.		41	19	20	Mother B.
27	0	8	39	21	21	Domitian
28	1	15	37	23	22	Sancho
29	2	13	35	25	23	Pancha.

I thought here to have introduced Mr. Mantext, and how wonderfully I had decked him out in this delectable Work, I will leave the Reader to judge when he comes to the ſecond Part of this wonderful Performance. Certainly of all the Times in the World, from the Time that *Canting* firſt courted a demure Siſter called *Hypocriſy*, a great Singer of Hymns, of whom he begat *Sedition*, which is now a great while ago, to this preſent Moment in which I am nibbing my Pen, no Time could have been ſo proper to have introduced him.

But the Fates determin'd otherwiſe

Now, gentle Reader, you muſt underſtand, while the one had laid in a large Cargo of Argument, and was drinking in Order to digeſt the Syllogiſms properly, the other taking Opportunity to begin the Attack while his Companions Mouth was full, immediately began as follows:

"Sir, what I have ſaid, I will manifeſtly prove to be as true and as plain as any one Propoſition in Euclid; and ſo, Sir, do you ſuppoſe—here a violent opening of the Door made as big a Buſtle, and confounded the Ideas of both the Diſputants, as if Heaven and Earth had come together.

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March hath xxxi Days.

M D	☉ Decl South
1	7 12
6	5 16
11	3 19
16	1 20
21	0 N. 13
26	2 3

New Moon the 7
First Quarter the 14
Full Moon the 21
Last Quarter the 29
} Day at { 11 Hour, 33 M. Aft. 5 — 17 M. Morn. Midnight. 4 — 25 M. Aft.

☉ enters ♈ 19th Day 10 Ho. 3 Min. Night

1	19	S	*David*
2	20	S	Midlent Sun.
3	21	M	☽ rif. 6h 17m. M
4	22	T	♂ fets 4h 22m. M
5	23	W	
6	24	T	Da. 11h. 14m. lo
7	25	F	Perpetua
8	26	S	Day br. 4h. 28m
9	27	S	5 Sun. in Lent.
10	28	M	☽ ri. 5h. 53m. M
11	29	T	☽ fets 3h. 57m.
12	M	W	*Gregory*
13	2	T	
14	3	F	Cam. Term ends
15	4	S	Oxford T. ends
16	5	S	Palm Sunday.
17	6	M	*St. Patrick*
18	7	T	*Ed. K. W. Sax.*
19	8	W	
20	9	T	Maundy Thurſ.
21	10	F	Good Friday
22	11	S	
23	12	S	Easter Sunday.
24	13	M	Easter Monday
25	14	T	Easter Tuesday
26	15	W	
27	16	T	Day br. 3h. 44m.
28	17	F	Twi. en. 8h. 20m
29	18	S	
30	19	S	Low Sunday
31	20	M	

Chad

So chaſte was my Stile, not a Thought that was rude
'Scap'd my Pen, nor an inſolent Jeſt;
And pray what did ſhe?—Why ſhe read 'till ſhe ſpew'd,
And ſhe wip'd her Backſide with the reſt.

Who e'er was in Love may full eaſy ſuppoſe
With the News how my Heart it grew flat;
Had I known but her Wants, I'd have lent her my Noſe,
Ere ſhe ſhould have wip'd her with that.

Well! ſhe s cur'd me of writing, I'll venture to ſay;
And ſhe nearly has cur'd me of thinking;
My Stomach for eating's quite gone, and I pray

Benedict

That I may'nt loſe my Stomach for drinking.
Sore ſunk is my Heart, while I ſing my ſad Lay,

Annunciation B. V. M.

And my Liver is dri'd to a Kex;
While my Guts are ſo dwindl'd, that every day
I'm ſure I loſe more than a Peck.

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Observations in MARCH.

	M	Clock bef.	⊙
Next March comes in, and bears no Mark	1	12	28
Of sultry Heat, but cold and dark;	6	11	2
He saunters on, but brings us Hope,	11	10	2
And that's much better than a Rope.	16	8	36
	21	7	5
	26	5	33

1	3	M. 2	M.	V.	24	Now see the
2	3	42	31	29	25	jolly Welch-
3	4	15	29	31	26	man swag-
4	4	40	27	33	27	ger;
5	5	2	25	35	28	Display his
6	5	24	23	37	29	Leek and
7	D	sets	21	39	N	shew his dag-
8	6	A 43	19	41	2	ger.
9	7	57	17	43	3	
10	9	13	15	45	4	
11	10	29	13	47	5	Gregory
12	11	44	11	49	6	Clement
13	morn.		9	51	7	Massanelo
14	0	55	7	53	8	G. a-Gren
15	1	56	5	55	9	Fi aun
16	2	44	3	57	10	Hobson.
17	3	23	1	59	11	
18	3	56	V.		12	
19	4	23	57	3	13	The Annun-
20	4	45	55	5	14	ciation
21	D	rise	53	7	F	Is sore Vex-
22	7	A 22	51	9	16	ation,
23	8	39	49	11	17	Where a Sot
24	9	55	47	13	18	his Money
25	11	4	45	15	19	spent,
26	morn.		43	17	20	And Bailiffs
27	0	7	51	19	21	come to seise
28	1	0	39	21	22	for Rent.
29	1	44	37	23	23	
30	2	21	36	24	24	
31	2	50	34	26	25	Lazarillo.

I never begun a good Story in my Life, but some of these plaguy Hindrances always snapped me short in one Circumstance or another, and lost me the Credit of telling it.

Bounce goes the Door, and in comes Sancho. With the sudden surprize the two Disputants were disabled from proceeding; the one by a Jumble of his Proofs and his Propositions, and the other by spilling his Ale upon a good pair of second-hand Breeches. Sancho, who was a particular Acquaintance of Griffin's, after a few Common-Place Speeches had pass'd, sat himself down without much Ceremony.

"Take the Tankard, says Griffin"—"That is right (quoth Sancho) give me hold of it. You know the old Proverb; when the Pig is proffered hold up the Poke. We must cut our Coat according to our Cloth; which makes me love a large Tankard, because it will bear a good pull. Nothing can beat it but a full Hogshead, a Hogshead and my own Head make two Heads, and two Heads are better than one says the Proverb. Gape and swallow is an excellent Receipt, and a muzzled Cat was never a good Mouser. Come here goes; much Water goes by the Mill that the Miller knows nothing of: If I drink deep, it is a Sign that I either am dry or like my Liquor.

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APRIL hath xxx Days.

M D	☉ Dec North.
1	4 54
6	6 48
11	8 40
16	10 27
21	12 10
26	13 49

New Moon 6
First Quarter 13
Full Moon 20
Last Quarter 28
} Day at { 1 Hours 17 M. Aft. / 11 — 52 M. Morn. / 0 — 0 Noon. / 11 — 39 M. Morn.

☉ enters ♈ 19 Day, 10 Ho. 47 Min. Morn.

1	2	1	
2	22	W	Oxf. & Camb. T.
3	23	T	Richard [begin.
4	24	F	*St. Ambrose.*
5	25	S	Old Lady-day.
6	26	E	2d Sun. aft. Eaſt.
7	27	M	Day inc. 5h 39m
8	28	T	
9	29	W	Eaſter. Ter. beg.
10	30	T	
11	31	F	☽ ri. 4h 7m. Mor
12	ap	S	♂ ſet 2h 35m Mo
13	2	E	3 Sun. aft. Eaſt
14	3	M	
15	4	T	
16	5	W	
17	6	T	Day inc. 6h 15m
18	7	F	
19	8	S	Alphege
20	9	E	4 Sun. aft. Eaſter
21	10	M	
22	11	T	
23	12	W	St. George
24	13	T	
25	14	F	St. Mar. Prs. M. b
26	15	S	
27	16	E	Rogation Sun.
28	17	M	Day br. 2h 21m
29	18	T	
30	19	W	

O Love! how thou doſt thy poor Vot'ries, beguile,
What Workings I feel up and down;
I'd willingly give her a Groat for a Smile,
For a Kiſs I would give her a Crown.

All lonely at Even I trace the rude Heath,
As the Sun gallops down from the South;
While my Heart gives ſuch Bumps, were it not for my Teeth,
I am ſure 'twould leap out of my Mouth.

My Pains ſure are worſe than a Woman in travail;
Love's Darts they have pepper'd me ſore:
There's one in my Heart, and juſt under my Navel
I'm ſure there's a Dozen or more.

Ye Lovers around, come and ſoothe a ſad Heart;
Ah, pity a poor love lorn Brother!
Oh, Cupid, I pray thee at her aim a Dart!
And ſtick it in ſome Hole or other.

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Observations in APRIL.

M D	Clock bef. ☉
1	3 40
6	2 12
11	0 48
16	0 Aft 27
21	1 35
26	2 31

Next April comes; and now poor Bet
Is at her Time, and in a Fret.
True! Lads muſt mow, and Laſſes may cock,
Bet curſes Frank, and damns the Haycock.

1	3	M	13	v.	vi.	26
2	3		25	30	30	27
3	3		54	28	32	28
4	4		13	26	34	29
5	4		30	24	36	30
6	D		ſets	22	38	N
7	8	A.	22	20	40	2
8	9		40	18	42	3
9	10		52	16	44	4
10	11		57	14	46	5
11	morn.			12	48	6
12	0		50	10	50	7
13	1		33	8	52	8
14	2		6	6	54	9
15	2		34	5	56	10
16	2		57	3	57	11
17	3		19	1	59	12
18	3		39	iv.	vii.	13
19	4		0	57	3	14
20	D		riſ.	55	3	F
21	8	A.	53	53	7	16
22	9		58	51	9	17
23	10		56	50	10	18
24	11		44	48	12	19
25	morn.			46	14	20
26	0		24	44	16	21
27	0		55	42	18	22
28	1		22	40	20	23
29	1		43	39	21	24
30	2		2	37	23	25

Hewſon.
Jno. Lilbo
Owen
Rowe.
Fryar Ba.
MilesCor.

The Man is bleſt, who takes a Wife, With Noiſe and Squalling all his Life.

Brough-
ton.
Owen
Rowe.
T. Tell-
troth.
Jno. Okey

And wiſhes oft, to gain Relief, That ſhe was dumb, or he was deaf.

J. Berkſtea
M. Grigg

Good Wine needs no Buſh, and the bad deſerves none. But while I am talking, Times ſtalking, and he that knows not that he has another Hour to live, ought to make uſe of the preſent one; ſo fore-warned is fore-armed; take Time by the Forelock. 'Tis good to be merry and wiſe. Good eating and good drinking are two noble Inventions, and may Heaven reſt the Soul of him who firſt found them out. So putting the Tankard to his Head, put an End to his Harangue. Griffin ſeeing that, pulls his Pipe out of his Mouth.—Here (quoth Griffin) ends the firſt Chapter of the Proverbs of Sancho.

Sancho, after emptying the Contents, ſhaking the Tankard, began again as follows: A Word to the Wiſe is ſufficient, and the leaſt ſaid is the ſooneſt mended; there is no need to ſpeak for a Thing which will ſpeak for itſelf. Griffin ordered it to be filled.—Sancho continued his proverbial Lecture.—The beſt Way, ſays Sancho, to keep Ale from ſouring is to drink it while it is freſh.—It is better to be unborn than untaught.—And he who has not learnt that is a Leſſon ſhort.—Wit is a ſhifting Thing; and we never know what Part of the Tankard

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May hath xxxi Days.

M D	☉ Decl North.
5	15 21
6	16 48
11	18 7
16	19 10
21	20 22
26	21 17

New Moon the 6
First Quarter the 12
Full Moon the 20
Last Quarter the 28
} Day at
0 Hours 15 M. Morn.
5 — 33 M. Aft.
1 — 8 M. Morn.
4 — 33 M. Morn.

☉ enters ♊ 20 Day, 11 H. 21 M. Morn.

1	20	1	Alcenſion.	St. Phil. and James.
2	21	F	On Mor. of Aſc.	Tankard to find it in. Syntax, who
3	22	S	*Inv. of the Croſs*	now thought it high Time for him to
4	23	E	Sun. aft. Aſcen	ſpeak, attempted a Definition of Wit;
5	24	M	Eaſt. Term ends	which being in Metre, we ſhall give as
6	25	T	*John, E.A.P.L.*	follows:
7	26	W		
8	27	T	Oxford T. ends.	Reaſon of Man, the nobleſt Part,
9	28	F	Twi. en 1ch 27m.	That rules the Head, or mends the Heart,
10	29	S		Warning a good Companion fit,
11	30	E	Whit-Sunday	Calls out for Wit.
12	M	M	Whit-Monday	
13	2	T	Whit-Tueſday	Though Bacchus, jolly God divine,
14	3	W	Ember Week	And worth nine thouſand of the Nine,
15	4	T		Should ſpread the Board ſhow dull all ſit
16	5	F	Da. 15h 38m. lo.	'Till in comes Wit.
17	6	S		
18	7	E	Trinity Sunday	Wit is a ſprightly active kind
19	8	M	Q. Charlotte b.	Of Phantom, never yet defin'd;
20	9	T		Thouſands have aim'd, but few have hit
21	10	W	*Oxf. Term. beg.*	On right true Wit.
22	11	T	Prs. Eliz. born.	Dunſtan.
23	12	F	Trin. T. beg.	Wit loves at feſtive Boards to bide,
24	13	S		With Mirth and Humour by his Side,
25	14	E	1S. aft. Trin.	But oft with theſe he cannot ſit;—
26	15	M	Auguſtine 1ſt	Alaſs, poor Wit!
27	16	T	Bede [Abp. of Ca	
28	17	W		So when dull Folly holds the Purſe,
29	18	T	K. Cha. II. Reſt.	And Wit muſt ſtarve, or do what's worſe,
30	19	F		How oft 'gainſt Conſcience has he writ;
31	20	S		But don't blame Wit.
				Conſider needy Wit, altho'
				To Folly 'tis the greateſt Foe,
				To Hunger's Call muſt ſtill ſubmit;
				Or farewell Wit.

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Observations in May 1788.

M D	Clock aft. ☾
1	3 13
6	3 42
11	3 57
16	3 58
21	3 45
26	3 19

Troubles we daily see appear
In ev'ry month of ev'ry year:
The month of May blows up love's passion,
Tho' kissing's never out of fashion.

1	2 m	21	IV.	VII.	26	Ill betide
2	2	30	34	26	27	the fickle
3	3	0	32	28	28	bride.
4	3	21	30	30	29	
5	3	48	28	32	30	Esq. Dun,
6	☽	sets.	27	33	N	Drayman
7	9 a	51	25	35	2	Pride
8	10	49	23	37	3	Squire
9	11	36	22	38	4	Ketch,
10	morn		20	41	5	Long Doll.
11	0	12	19	41	6	
12	0	42	17	43	7	Of the lafs
13	1	5	16	44	8	that won't
14	1	27	14	46	9	appear at
15	1	48	13	47	10	least one
16	2	7	11	49	11	day in the
17	2	29	10	50	12	year.
18	2	54	8	52	13	
19	3	24	7	53	14	Marriat the
20	☽	rises	6	54	F	eater,
21	9 a	41	4	56	16	Du Vall.
22	10	22	3	57	17	
23	10	57	2	58	18	trim'd up in
24	11	24	III.	VIII.	19	her best ar-
25	11	46	59	1	20	ray, to hail
26	morn		58	2	21	the lady of
27	0	7	57	3	22	the May,
28	0	26	56	4	23	and with
29	0	43	55	5	24	the swains
30	1	1	54	6	25	trip o'er the
31	1	21	53	7	26	plains.

Syntax having repeated the above, sat waiting for the thanks of the company; but was disappointed by the tankard coming in again, which appeared to have more attraction than Syntax's poem; he ventur'd to ask their opinion however; and was replied to by Sancho. Wit often says he, goes of a fool's errand, when it would do well to remember that of little medling cometh great ease; and pouring oil into the fire is not the way to quench it; he that loseth his friend for a jest, is penny wise and pound foolish. Wit may have words at will, but 'tis a still sow that drinks all the draugh; and take heed, is a good rede. If thou hast wit, keep it. Store is no sore, wherefore spare at the brim rather than at the bottom. Many who have set up for wits have broke for want of stock.

Here Mrs Griffin broke in, and beg'd Trigon's *defamation* of wit; not that she cared a farthing about it, but she had just hit upon a fine word, and wanted to display it. Wit, Madam, said Trigon, in general strikes with vehemence, and darts unexpected, like lightning from heaven or a glance from your ladyships eyes—God-a-me cy (quoth Griffin) that's all news to me. I know her tongues like a clap of thunder; but I e-

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JUNE hath xxx Days.

M D	Dec. North.	
1	22	11
6	22	15
11	23	9
16	23	24
21	23	27
26	23	21

New moon 4 } Day { 8 hour 58 min. Morn.
First Quarter 11 } at { 11 38 min. Aft.
Full moon 18 } { 3 26 min. Aft.
Last Quarter 26 } { 6 40 min. Aft.
☉ enters ♋ 20 day, 8 hours 2 min. aft.

1	21	E	2 Sun. aft. Trin.
2	22	M	In 15d. of H. Tr. 3 ret
3	23	Tu	☽ rises 0h. 46m. mor.
4	24	W	K. Geo. III. born
5	25	Th	Pr. Ern. Aug. b.
6	26	F	Day 16h. 24m. long
7	27	S	Day inc. 8 h. 42 m.
8	28	E	3 Sun. aft. Trin.
9	29	M	In 3 W. of H. Tr. 4 ret
10	30	Tu	
11	31	W	St. Barnabas
12	June	Th	♂ sets 11h. 42m. aft.
13	2	F	
14	3	S	Day 16h. 32 m. long
15	4	E	4 Sun. aft. Trin.
16	5	M	
17	6	Tu	St. Alban
18	7	W	Day inc. 8 h. 50 m.
19	8	Th	
20	9	F	Trans. Edw. K. W. S.
21	10	S	☽ rises 11h. 30 m. af.
22	11	E	5 Sun. aft. Trin.
23	12	M	
24	13	Tu	N. J. Baptist
25	14	W	
26	15	Th	Day 16h. 32m. long
27	16	F	
28	17	S	No real night
29	18	E	6 Sun. aft. Trin.
30	19	M	

Nicomede

Ah fortune like a fickle whore,
To fools give wealth while wits are poor,
But wealth won't lend what wit would borrow,

Boniface

And that's wits sorrow.
And yet to think, as 'twere by ſtealth,
Poor wit muſt creep and cringe to wealth;
By Jove it makes her vot'ries ſad,
And wit ſtark mad.
Muſt genius ſtoop for fools to ſtride on,
Aſſes to kick, and blockheads ride on;
Ev'n Wit itſelf, by folly bitted,
Seems wit out witted.
Oh! curſe the hour, and d—n the day,
When wit to folly firſt gave way;
Now fools are wits in Mammon's ſchool,
And wit's a fool.
And curſe, ſaid I on wicked wit,
That did to fools in wealth ſubmit;
But, ah! my curſes come too late,
Wits out of date.
Sad poverty cries out forgive
Wit was in want, and wit muſt live.
Yes.—And this truth we all muſt grant,

St. Peter Wit lives in want.

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Obſervations in JUNE.

M D	Clock aft. Sun.
1	2 31
6	2 40
11	2 42
16	bef. 20
21	1 24
26	2 27

And next the merry month of June
Is ſad to put all things in tune:
Of birds it mellows much the ſong,
But who can tune a woman's tongue.

1	1	m45	III. VIII.	27	Spaniſh curate, Flying ſerpent.	
2	2	14	51	9	28	
3	2	52	50	10	29	
4	☽	ſets.	49	11	N	
5	9	a 27	49	11	2	Now let it never be forgotten, of whores to chuſe, a whore that's rotten.
6	10	11	48	12	3	
7	10	43	47	13	4	
8	11	8	47	13	5	
9	11	31	46	14	6	
10	11	51	46	14	7	
11	morn		45	15	8	
12	0	10	45	15	9	Henry Vain Wood the eater.
13	0	32	44	16	10	
14	0	56	44	16	11	
15	1	23	44	16	12	
16	1	57	43	17	13	Since a ſmall bit of rotten ware, may chance to ſerve a man a year.
17	2	38	43	17	14	
18	☽	riſes.	43	17	F	
19	8	a 52	43	17	16	
20	9	24	43	17	17	
21	9	46	43	17	18	
22	10	7	43	17	19	
23	10	25	43	17	20	
24	10	43	43	17	21	C. Clauſey, Simon Mayne, Pantagruel Argile, QueenDick, Peg timbertoe.
25	11	1	43	17	22	
26	11	19	44	16	23	
27	11	40	44	16	24	
28	morn		44	16	25	
29	0	6	45	15	26	
30	0	38	45	15	27	

ver thought her eyes were more like gooſeberreis than lightning.—I will repeat ſome more verſes, ſaid Trigon, wrote upon this ſubject; and I believeby the ſame hand.

What think you of wit now, ſaid Griffin?

Why, replied Sancho, as Mr. Trigon has dreſſed him, he is wit in his worſt garment; and though wit may be a droll companion, he is but a beggarly neighbour, laugh you your bellyfull and I will eat my bellyfull, and then ſee which will hold out the longeſt. Beſides, wit and miſmanagement are ſworn companions; and where they two meet in a houſe there is no occaſion for two chimneys. She who weds a wit is ſure never to want ſhifts, tho' many of them may prove bad ones. A wit never conſiders how the pot muſt boil, but only how he muſt come at the pottage. You have heard of a ſhining wit; and you have ſeen the ſhining ſun: but remember either the one or the other will put out the Kitchen fire. Marry a wit, and block up the lights; leſt when poverty comes in at the doors, love ſhould fly out at the windows. Wit may cut keen, but it was with diligence and patience that the mouſe eat the cable in two. Whereas wit is too often neglectful, and neglect is a bad houſe-

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July hath xxxi Days.

New Moon the	3	Day at	4 Hours 15 min. After.
First quarter the	10		7 33 min. Morn.
Full Moon the	18		6 34 min. Morn.
Last quarter the	26		6 10 min. Morn.

☉ enters ♌ 22 day, 6 hours 53 m. morn.

M D	☉ Decl. North.	
1	23	4
6	22	37
11	22	1
16	21	14
21	20	19
26	19	16

1	20	Tu	Camb. Com.
2	21	W	Visit. of B. V. M.
3	22	Th	Dog days begin
4	23	F	Trans. St. Martin
5	24	S	Old Midſ. day
6	25	E	7 Sun. aft. Trin.
7	26	M	Oxford Act.
8	27	Tu	No real night, but
9	28	W	all twilight
10	29	Th	
11	30	F	☽ riſes 10h. 8m. aft.
12	July	S	Oxf. Term ends
13	2	E	8 Sun. aft. Trin.
14	3	M	
15	4	Tu	Swithin
16	5	W	
17	6	Th	♀ Stationary
18	7	F	
19	8	S	
20	9	E	9 Sun. aft. Trin.
21	10	M	
22	11	Tu	Magdalen
23	12	W	♂ ſets 9h. 34m. aft.
24	13	Th	
25	14	F	St. James
26	15	S	St. Anne
27	16	E	10 Sun. aft Trin.
28	17	M	
29	18	Tu	Day 15h. 32m. long
30	19	W	
31	20	T	

The Dream.

Cambr. Term ends.

Exact to the time I cannot tell you truly,
'Twas the laſt day of June or the firſt day of July,
I wak'd in a hurry, and lift up my head,
And ſtraight was preparing to jump out of bed.

Lay ſtill ſays my ſpouſe, pray now what are you ſcheming?
Good faith my dear lady, ſaid I, I was dreaming.
And what was your dream? for you ſeem'd in a fright.
I reply'd, why I dreamt—'twas a horrid dark night.
I was got in a place where a perſon might hide one.

It was curſedly deep and a deviliſh Margaret.
wide one
And there I was hobling, and wrig-ling about;
I was not fairly in, nor was yet fairly out.
'Twas a kind of a coal-pit all cover'd with water.
Hold your tongue, ſaid my lady, and ſtay your fool' clatter.

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Observations in JULY.

M. D.	☽ bet. ☉
1	3 28
6	4 21
11	5 6
16	5 38
21	5 55
26	6 3

From June proceed we next to July,
On which to give my judgment truly;
July you'll find when gone once more,
Much like the July's gone before.

1	1 m	22	III. VIII.	28	Black pudding Nell,
2	2	19	46 14	29	Frank Chaloner,
3	☽ sets		47 14	N	Will Somers,
4	8 a	34	48 13	2	Dods Diego
5	9	5	48 12	3	Lads and Lasses come away,
6	9	29	49 11	4	Stir your stumps and make your hay,
7	9	51	50 10	5	Time or labour do not spare,
8	10	9	50 10	6	Harveſt next demands your care.
9	10	32	51 9	7	
10	10	55	52 8	8	
11	11	21	53 7	9	
12	11	53	54 6	10	
13	morn		55 5	11	
14	0	32	56 4	12	
15	1	18	57 3	13	
16	2	11	58 2	14	
17	3	11	IV. VII.	15	
18	☽ rises		1 59	F	
19	8 a	10	2 58	17	
20	8	29	3 57	18	As canst Tom of bedlam,
21	8	46	4 56	19	Hugh Evans,
22	9	4	5 55	20	Mad Beſs,
23	9	22	6 54	21	Zantippo
24	9	43	7 53	22	Sir John Mandeville.
25	10	6	9 52	23	
26	10	36	10 50	24	
27	11	11	11 49	25	
28	morn		13 47	26	Now good folks work, like any Turk.
29	0	0	14 46	27	
30	1	2	15 45	28	
31	2	16	16 44	29	

keeper; and ſtupidity behind a counter will often get an eſtate while wit is ſpending one at the tavern.

As wit found no quarter here, he flew off in queſt of freſh company; and to the great ſatisfaction of them all left the good people to change their ſubject.

Having diſcuſſed this affair, and diſcarded poor wit in manner as before obſerved, the ſilent moment arrived: that ſhort ſpace of ceſſation which in Great Britain has always been obſerved to creep in once an hour, among all mixed companies whatever. I mean among the male ſex; for to do the ladies juſtice,

Be it remember'd ſilence never ventures
To ſtay a moment where a woman enters.

The ſilent moment ſoon fleeted away.—Mrs. Griffin was there. She ſoon began to ſpeak upon temperance and good hours. That diſcourſe was put off by her ſpouſe, who obſerved that it would be time enough to talk of that about four o'clock in the morning, when they had emptied a dozen more tankards. The ſilent moment returned and found Griffin filling a freſh pipe, his ſpouſe meditating what to ſtart next. Syntax and Trigon in deep contemplation how to outſhine each other; and honeſt Sancho buſy in

August hath xxxi Days. 1788.

M D	☉. Dec. North.
1	17 49
6	16 28
11	15 1
16	13 28
21	11 50
26	10 7

New Moon	1	Day at	11 Hours 6 Min. Night
First Quarter	8		6 36 Min. Aft.
Full Moon	16		9 57 Min. Aft.
Last Quarter	24		3 39 Min. Aft.
New Moon	31		6 34 Min. Morn.

☉ enters ♍ 22 days 1 hour 14 Min. Aft.

1	21	F	Lammas day
2	22	S	
3	23	E	11 Sun. aft. Trin
4	24	M	♂ sets 8 h. 59 m. aft.
5	25	Tu	
6	26	W	Transfiguration
7	27	Th	Prs. Amelia born
8	28	F	Day breaks 1 h. 54 m
9	29	S	Twil. ends 10 h. 5 m.
10	30	E	12 Sun. aft. Trin.
11	31	M	Prs. Brunf. born
12	Aug.	Tu	P. Wales born
13	2	W	D. is 14 h. 38 m. long
14	3	Th	
15	4	F	Assumption
16	5	S	D. of York born
17	6	E	13 Sun. aft. Trin.
18	7	M	D. breaks 2 h. 26 m.
19	8	Tu	♄ rises 7 h. 29 m. aft.
20	9	W	♂ sets 8 h. 12 m. aft.
21	10	Th	Pr. W. Henry born
22	11	F	
23	12	S	Twil. ends 9 h. 19 m.
24	13	E	14 Sun. af. Trin.
25	14	M	
26	15	T	D. dec. 2 h. 38 m.
27	16	W	
28	17	Th	St. Auguſtine
29	18	F	St. John Baptiſt beh.
30	19	S	
31	20	E	15 Sun. af. Trin.

The Hermit, or the *Midnight Converſati n.*

TWAS at the ſolemn midnight hour,
When ſhrowded ghoſts are ſeen;
O'er new made graves to ſtand aghaſt,
Name of Jeſus
Or glide along the green.
When Edwin wand'ring far away
St. Lawrence
Dog days end
Old Lammas day
Some Cavern wiſh'd to find;
For heavy came the pelting rain,
And ſorely howl'd the wind.

The lightn'ning flaſh'd, the thunder roll'd,
And bellow'd thro' the air;
Sad Edwin found a Hermit's cave,
And beg'd to enter there.

Now God be with thee, ſaid the ſage,
To my poor cell thou'rt free;
Yes, ſon of ſorrow, freely come
And ſeat thyſelf by me.

St. Bartholomew.

Alas thou ſeem'ſt full ſore oppreſs'd,
And ſunk in grief and woe;
Oh if deep ſorrow pangs thy breaſt
Give me that grief to know

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Obſervations in AUGUST.

M D	Clock be. ☉
1	5 51
6	5 24
11	4 43
16	3 47
21	2 38
26	1 18

And now the farmer views the field
To ſee what profit that will yield;
But ſure to find out ſomething wrong,
He grumbles as he goes along.

1	☽ ſets	IV.	VII.	N	Mumbling Moll.
2	7 a 28	22	38	2	
3	7 51	24	36	3	Miſtreſs Puſs.
4	8 13	25	35	4	
5	8 36	27	33	5	Who'll idle now, in ale-houſe lurk, and ſmoke and drink while others work,
6	9 0	28	32	6	
7	9 25	30	30	7	
8	9 55	32	28	8	
9	10 32	34	26	9	
10	11 16	35	25	10	
11	morn.	37	23	11	May he when's done the autumn's hurry,
12	0 8	39	21	12	
13	1 6	41	19	13	
14	2 8	42	18	14	
15	3 13	44	16	15	In winter ſtarve and none be ſorry.
16	☽ riſes	46	14	F	
17	6 a 55	48	12	17	
18	7 14	50	10	18	
19	7 34	51	9	19	
20	7 53	53	7	20	
21	8 16	55	5	21	
22	8 43	57	3	22	Bell and the dragon,
23	9 15	59	1	23	Tybert Penelope,
24	9 59	V.	VI.	24	
25	10 52	2	58	25	Jack Falſtaff,
26	11 58	4	56	26	Bardolph,
27	morn.	6	54	27	Poins,
28	1 16	8	52	28	Cerberus,
29	2 39	10	50	29	Witch of Endor.
30	4 6	12	48	30	
31	☽ ſets.	14	46	N	

ſtringing together a freſh bundle of proverbs.—Mrs. Griffin once more opened her mouth; the ſilent moment vaniſhed, and Fancy flew after wit; for I heard no more of it.

Gentlemen, ſays Mrs. Griffin, if it will not mortify your manifolds, tire your time, and take up too much of your patience, I would gladly receive ſome miſinformation upon a queſtion or two which I have to repoſe; and which I muſt needs own the diſſolution thereof would give me the greateſt petrefaction.

I apprehend you right well, Madam, replied Syntax. — You wiſh for ſome information upon what you are going to propoſe, and a reſolution of your queries would give you the greateſt ſatisfaction. —You have ſet me right, Sir, ſai. ſhe.—I am glad to hear it (ſaid her huſband) it is more than ever I could.—Come, dame, begin your ſtory; ſhall I help you out with it.—I inſiſt upon it, ſays Mrs. Griffin, every woman has a right to tell her ſtory her own way—True, ſays Sancho, when days are long, becauſe then ſhe may chance to finiſh it by ſunſet.—Your query, if you pleaſe, Madam, ſays Syntax, who wanted to be diſplaying his abilities. Oh by all means, ſaid Trigon, who was in hopes it

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SEPTEMBER hath xxx Days.

				M D	☉ Decl. North.
First Quarter	7	Day at	9 Hours 18 Min. Morn.	1	7 58
Full Moon	15		1 10 Min. After.	6	6 6
Last Quarter	22		11 38 Min. Night	11	4 13
New Moon	29		3 45 Min. After.	16	2 17
				21	0 21
				26	1 South 36

☉ enters ♎ 22 day 9 Hours 42 Min. Morn.

1	21	M	Giles	Now quoth the Hermit, tell me true,
2	22	Tu	Lond. burnt 1666	And let thy tale be plain;
3	23	W	♄ sets 4h. 56m. mor.	Why seekest thou these gloomy shades,
4	24	Th	♂ sets 7h. 36. m. aft.	To aggravate thy pain.
5	25	F		
6	26	S	D. is 13h. 10m. long	Say, why along the dusky Dell,
7	27	E	16 Sun. aft. Trin.	And through the desert drear;
8	28	M	Nat. of V. Mary	Enurchus
9	29	Tu	Twil. ends 8h. 31m	Thou wanderst on with weary step,
10	30	W		A woeful exile here.
11	31	Th	Sat. sets 1. 24 morn.	
12	Sep.	F	♂ sets 7h. 16m. aft.	Why didst thou parents leave and friends,
13	2	S		And all thy kindred clan,
14	3	E	17 Sun. aft. Trin.	To dwell among these lonely rocks
15	4	M		Holy Cross
16	5	Tu		A solitary man.
17	6	W	Ember Week	
18	7	Th	D. break 3h. 50m.	Lambert.
19	8	F		So may, my son, my sage advice
20	9	S		Speak comfort to thy breast;
21	10	E	18 Sun. aft. Trin.	Thy grief asswage, thy spirits cheer,
22	11	M	K. Geo. III. crown	And soothe thy soul to rest.
23	12	Tu	Twil. ends 8h. 0m.	St. Matthew
24	13	W		Pr. Alfred born
25	14	Th	Day 11h. 54m. long	So said the father; and the youth
26	15	F	St. Cyprian	With sorrow in his eye;
27	16	S		While heartfelt grief his soul oppress'd
28	17	E	19 Sun. aft. Trin.	Did thus return reply.
29	18	M	St. Michael	Pr. Charles Aug. born
30	19	Tu	St. Jerome	

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Observations in SEPTEMBER.

If it should chance the crops but thin,
'Twill hardly pay for getting in:
If plenteous as he could desire,
He counts the folks he has to hire.

M D	Clock aft.	Sun
1	0	28
6	2	5
11	3	48
16	5	33
21	7	18
26	9	0

1	6 a	44	V.	VI.	2	Sue Hewel
2	7	8	18	42	3	Tyburn,
3	7	33	20	40	4	Nose Oliver.
4	8	3	22	38	5	
5	8	8	23	37	6	
6	9	20	25	35	7	Now all
7	10	9	27	33	8	thoughful
8	11	5	29	31	9	men to
9	morn		31	29	10	think they
10	0	6	33	27	11	are put on't,
11	1	11	35	25	12	Some how
12	2	17	37	23	13	to get mo-
13	3	23	39	21	14	ney, some
14	4	31	41	19	15	how to get
15	☽ rises.		43	17	F	shut on't.
16	6 a	9	45	15	17	Laird Ware,
17	6	31	47	13	18	Cunney
18	6	58	49	11	19	Beard,
19	7	28	51	9	20	Mother
20	8	8	53	7	21	Dobs,
21	8	57	55	5	22	Julian Apo-
22	9	58	57	3	23	state,
23	11	9	59	1	24	Jack Brad-
24	morn		VI.	V	25	shaw,
25	0	28	3	57	26	Charon.
26	1	50	4	56	27	Remember
27	3	13	6	54	28	now and
28	4	36	8	52	29	then pro-
29	☽ sets.		10	50	N	vide, against
30	5 a	43	12	48	2	the day of
						Michael-
						mas tide.

might be somewhat that would admit of a mathematical solution. ---Never mind of what nature your question is, whether it be arithmetical, logarithmetical, geometrical, stereometrical, or trigonometrical, or whether it requires an algebraical or fluxional process. Blood & oons, quoth Griffin, I did not think there had been so many hard words in the world in the world. Syntax was rather afraid Trigon would get the lead.---I believe, with submission, says Syntax, that a logical discussion would best answer a lady's propositions.---Another *ical* again says Griffin.---I am not fond of hard words.--They are very bad things, says Sancho, to butter turnips with.---Mrs. Griffin put forth her question; which was---but I will give it in her own words, When we die, as die we must;---You may die as soon as you please, says Griffin, but I have no notion of leaving my liquor behind me.

Right, says Sancho. Rest when you are dead, but drink while you live, it is an exercise which suits all people; because he who drinks till he cannot stand, may do it sitting.---Mrs. Griffin went on; her question was, Whether we should know one another in a separate state of existence.---I hope not,

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October hath xxxi Days. 1788.

First Quarter	7	Day at	3 hours 11 min. Morn.
Full Moon	15		3 50 min. Morn.
Last Quarter	22		6 43 min. Morn.
New Moon	29		3 15 min. Morn.

☉ enters ♏ 22 day 5 hours 39 min. Aft.

M D	☉ Decl. South
1	3 32
6	5 28
11	7 23
16	9 14
21	11 2
26	12 47

1	20	W	Remigius	Yes, holy man, I'll tell thee true;
2	21	Th		And tell my tale full plain,
3	22	F	☽ sets 2h. 56m. mor.	Why here I seek these gloomy shades,
4	23	S	♂ sets 6h. 23m. aft.	And here with to remain.
5	24	E	20 Sun. aft. Trin.	And why along the dusky Dell,
6	25	M	Faith	And thro' the desert drear,
7	26	Tu	Day dec. 5 h. 23 m.	With weary steps, I wander on
8	27	W	D. break 4h. 33 m.	A willing exile here.
9	28	Th	St. Denys	Why I have parents left, and friends,
10	29	F	Ox. and C. T. beg.	Old Michaelmas Day.
11	30	S	☽ sets 2h. 25m. mor.	And all my kindred clan;
12	Oct.	E	21 Sun. aft. Trin.	And why I chuse to wander here,
13	2	M	Transf. of K. Ed.	A solitary man.
14	3	Tu		So Father may thy sage advice,
15	4	W		And eke thy precepts kind,
16	5	Th		Speak comfort to a tortur'd breast,
17	6	F	Etheldred	And ease my troubled mind.
18	7	S	St. Luke	Know then, my Sire's a baron bold,
19	8	E	22 Sun. aft. Trin.	A man of high degree;
20	9	M	☽ sets 1h. 50m. mor.	And both by country, and by king,
21	10	Tu	♂ sets 5h. 43m. aft.	Full well belov'd was he.
22	11	W		And passing rich, with trophies great
23	12	Th		In many battles won;
24	13	F	Day 10h. 2m. long	Crispin.
25	14	S	K. Geo. III. accest	K. Geo. III. procl.
26	15	E	23 Sun. aft. Trin.	My Mother was of princely race,
27	16	M		And I their only son.
28	17	Tu	St. Simon and Jude	
29	18	W	Twil. ends 6h. 48m.	
30	19	Th		
31	20	F	Day dec. 6h. 50m.	

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Observations in OCTOBER.

M D	Clock aft. Sun.
1	10 36
6	12 5
11	13 24
16	14 31
21	15 23
26	15 57

He sees the blessings God has sent,
Yet with those blessings not content,
Ne'er blesses Heaven for treasures large,
But only cries out of the charge.

			VI.	V.		
1	6 a	9	16	44	3	Robin Hood, Little John, Will Scarlet, Friar Tuck, Clarinda.
2	6	45	18	42	4	
3	7	25	20	40	5	
4	8	11	22	38	6	
5	9	5	24	36	7	
6	10	5	26	34	8	
7	11	8	28	32	9	
8	morn		30	30	10	To keep in heat and keep out cold, The Sovereign remedy is gold. The doctor waits and gives his physic, For sov'reign gold to him that is sick.
9	0	12	32	28	11	
10	1	19	34	26	12	
11	2	26	36	24	13	
12	3	34	38	22	14	
13	4	42	40	20	15	
14	5	42	42	18	16	
15	☽	rises	44	16	F	
16	5 a	35	45	15	18	
17	6	14	47	13	19	
18	6	59	49	11	20	
19	7	59	51	9	21	
20	8	8	53	7	22	
21	10	21	55	5	23	
22	11	41	57	3	24	
23	morn		59	1	25	
24	1	2	VII.	IV.	26	
25	2	22	3	57	27	Harrison the brewer, Scott the butcher, Hugh the jester.
26	3	42	4	56	28	
27	5	2	6	54	29	
28	6	21	8	52	30	
29	☽	sets	10	50	N	
30	5 a	22	12	48	2	
31	6	7			3	

said, Griffin.---While Trigon was puzzling for a mathematical discussion; syntax snap'd up the argument, and began as follows:

To answer this question fairly, fully, and to a demonstration; we must consider the affair methodically, and handle the matter logically; that the conclusion of our argument may be uncontrovertible, and consequently convincing, for demonstrative truth is as much superior to plausible conjecture as a --Here Syntax paus'd for a similie: The head of Sancho help him to one.---As much quoth Sancho as a hearty pull out of a Tankard of good ale is to a draught of poison out of a dead man's skull.---Madam, said he, whoever has read the Elements of Logic, written in French by *Peter du Moulin*, and translated by Nathaniel Delawne, Batchelor of Arts in CAMBRIDGE, and printed by *Nicholas Bourne, at the Royal Exchange London, anno Domini*, 1624, will find that when a man would search out the truth of a question, and desires to gather proofs to prove or to impugn the question propounded; all that can be brought is either,

1. The genius of that we desire to prove.
2. Or the species.
3. Or the difference.

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November hath xxx Days.

First Quarter	5	Day at	11 hours 53 min. Night
Full Moon	13		5 40 min. Aft.
Last Quarter	20		1 49 min. Aft.
New Moon	27		6 10 min. Aft.

☉ enters ♐ 21 day 1 hour 52 min. Aft.

M D	☉ Decl. ☽ South.	
1	14	45
6	16	17
11	17	42
16	19	0
21	20	9
26	21	9

1	21	S	All Saints	But why, alas, in pride of heart
2	22	E	24 Sun. aft. Trin.	Pr. Edw. born · All Souls
3	23	M	Prs. Sophia born	On mor. of All Souls 1 ret
4	24	Tu	♂ sets 3h. 14m. aft.	Should I my proweſs tell;
5	25	W	Powder plot 1605	How I at tilts and tournaments
6	26	Th	Leonard	Mich. Term begins
7	27	F	D. Cumb. born	Have born away the bell.
8	28	S	Prs. Aug. Sop. born	
9	29	E	25 Sun. aft. Trin.	Or why afflict my tortur'd breaſt,
10	30	M	Ld. Mayor's d. at L.	While I to thee impart
11	31	Tu	St. Martin	The happy, lucky deed that won
12	Nov.	W	On mor. St. Martin	My Winnifreda's heart.
13	2	Th	Britius [2 ret	Dear Winnifred, the loveliest prize
14	3	F	Day 8h. 52m. long	That ever mortal won;
15	4	S	Machutus	Sweet lovely maid, whoſe ſparkling eyes
16	5	E	26 Sun. af. Trin.	Outſhone the mid-day ſun.
17	6	M	Hugh B. of Lincoln	
18	7	Tu	In 8 d. of S. M. 3 ret	She was the envy of her ſex,
19	8	W		The pride of ev'ry youth:
20	9	Th	Edmund K. & Mar.	How ſweet is beauty when combin'd
21	10	F		With innocence and truth.
22	11	S	Cecilia	
23	12	E	27 Sun. aft. Trin.	Old Martinmas day
24	13	M		St. Clement
25	14	Tu	D. of Glouc. born	Cather. in 15 d. of St M. 4 ret
26	15	W		In her the virtues interwove
27	16	Th	☉ eclipſed inviſ.	With ev'ry grace did ſhine;
28	17	F	Mich. Term ends	Angels on her look'd down with love;
29	18	S		And ſhe alone was mine.
30	19	E	Advent Sunday	St. Andrew

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Observations in NOVEMBER. 1788.

M. D	Clock aft. Sun.
1	16 18
6	16 5
11	15 36
16	14 47
21	13 36
26	12 5

His pig he'll with a figh bemoan,
That's low of flesh, and high of bone;
Then claws his head beneath his hat,
The pig will die before it's fat.

			VII.	IV.		
1	6	a 59			4	Will Dell,
2	7	58	15	45	5	Colebrand,
3	8	59	17	43	6	Devil of
4	10	3	19	41	7	Maſcon,
5	11	9	21	39	8	Guy Faux.
6	morn		22	38	9	———
7	0	13	24	36	10	A little
8	1	18	26	34	11	hope mix'd
9	2	27	27	33	12	with a deal
10	3	36	29	31	13	of ale,
11	4	47	31	29	14	To cheer
12	5	59	32	28	15	the heart
13	☽	rises	34	26	F	was never
14	4	a 55	36	24	17	known to
15	5	51	37	23	18	fail.
16	6	56	39	21	19	Then take
17	8	7	40	20	20	my counſel:
18	9	30	42	18	21	think it not
19	10	49	43	17	22	a jeſt:
20	morn		44	16	23	'Tis a good
21	0	9	46	14	24	cordial *et*
22	1	26	47	13	25	*probatum eſt.*
23	2	38	48	12	26	
24	4	1	50	10	27	
25	5	15	51	9	28	
26	6	28	52	8	29	John Ven,
27	☽	ſets	53	7	N	John James,
28	4	a 43	54	6	2	Henry
29	5	38	56	4	3	Ireton,
30	6	39	57	3	4	James
						Chaloner.

4. Or the proper.
5. Or ſome accident.
6. Or the whole, or ſome part thereof.
7. Or the Definition.
8. Or the diviſion.
9. Or ſomething coupled unto it.
10. Or the cauſe or effect.
11. Or the etymology.
12. Or ſomething like or unlike.
13. Or the oppoſite.
14. Or a compariſon in the Things.
15. Or a compariſon in the probability.
16. Or ſome teſtimony.

Upon all which heads, ſays he, I ſhall now treat.---Bring my night-cap, ſays Griffin.---Huſband, replied his ſpouſe, if you do not wiſh to hear this point diſcuſſed, I do, and ſo perhaps may your neighbour Sancho.---Quoth Sancho, I had rather walk a mile upon my own ground.---Trigon rather turned the diſcourſe into a freſh channel, by obſerving the improbability of ſouls ever meeting again: for, ſaid he, if you die at 12 o'clock to-night, and your ſoul flies directly up to the celeſtial regions. Your ſpouſe dies to-morrow at noon. She flies in purſuit of you, in a direct line

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December hath xxxi Days.

First Quarter	5	Day at	8 hours 46 Min. Night
Full Moon	13		6 22 Min. Morn.
Last Quarter	19		10 4 Min. Night
New Moon	27		11 31 Min. Morn.

☉ enters ♑ 22 day, 2 hours 14 Min. Morn.

M D	☉ Decl. South
1	21 58
6	22 38
11	23 6
16	23 22
21	23 27
26	23 21

1	20	M		We too in wedlock's holy bands
2	21	Tu		United were; but oh!
3	22	W	♄ sets 10h. 17m. aft.	Now holy Father, lift a while,
4	23	Th	♂ sets 4h. 17m. aft.	And hear the tale of woe.
5	24	F		
6	25	S	Nicholas	And now a-down his manly cheeks
7	26	E	2 Sun. in Advent	The tears did gush full fast;
8	27	M	Conception of V. M.	He smote his breast, he groan'd, he sigh'd
9	28	Tu	Twil. ends 6h. 2m.	As if he'd sigh his last.
10	29	W		
11	30	Th	♄ sets 10h. 17m. aft.	Son, says the Sage, dry up thy tears,
12	Dec.	F	♂ sets 4h. 5m. aft.	Since tears will nought avail;
13	2	S	Lucy	To me unbosom all thy grief,
14	3	E	3 Sun. in Advent	And tell thy bitter tale.
15	4	M		
16	5	Tu	O sapientia	So may my friendship soothe thy pain,
17	6	W	Day dec. 8h. 49m.	Cambridge Term ends
18	7	Th	D. break 6h. 1m.	Oxford Term ends
19	8	F		So may my counsels guide,
20	9	S		I will.--Oh grant me patience heav'n,
21	10	E	4 Sun. in Advent	The woesram youth reply'd.
22	11	M	♂ sets 3h. 52m. aft.	St. Thomas
23	12	Tu	Twil. ends 5h. 59m.	Yes Father I the tale will tell,
24	13	W		Though bitter be the task.
25	14	Th	Christmas day	But what he said, or what befell,
26	15	F	St. Stephen	I quite forgot to ask.
27	16	S	St. John	
28	17	E	1 S. aft. Christmas	
29	18	M	Twil. ends 6h. 1m.	Innocents
30	19	Tu	Day 7h. 50m. long	
31	20	W	Silvester	

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Obſervations in DECEMBER. 1788.

M D	Clock aft. Sun.
1	10 16
6	8 11
11	5 55
16	3 31
21	Ibef. 1
26	1 28

Thus inward pining, full of care,
He fairly grumbles out the year;
Hoping the next will prove more kind,
But hopes for what he ne'er will find.

1	7 a	45	VII.	IV.	5	Now as I'm
2	8	49	59	1	6	ſure that
3	9	53	0	0	7	nobody
4	10	58	VIII.	III.	8	needs this
5	morn		1	59	9	ſtuff,
6	0	3	2	58	10	I'd gladly
7	1	9	3	57	11	know if any
8	2	18	4	56	12	body reads
9	3	27	4	56	13	this ſtuff.
10	4	40	5	55	14	But 'till I
11	5	53	5	55	15	have an an-
12	7	2	6	54	16	ſwer,
13	☽	riſes	6	54	F	I'll do all
14	5 a	41	7	53	18	that I can
15	7	2	7	53	19	Sir,
16	8	23	7	53	20	And ſo to
17	9	47	8	52	21	pleaſe your
18	11	6	8	52	22	noſe,
19	morn		8	52	23	As Chriſt-
20	0	23	8	52	24	mas comes
21	1	38	8	52	25	nere goes.
22	2	53	8	52	26	
23	4	5	8	52	27	
24	5	12	8	52	28	
25	6	16	7	53	29	Roaſt beef,
26	7	7	7	53	30	plumb pud-
27	☽	ſets	7	53	N	ding, pork
28	5 a	16	6	54	2	in plenty,
29	6	21	6	54	3	Ale moſt
30	7	27	5	55	4	dainty.
31	8	32	5	55	5	

alſo; but the earth having turn'd one half upon its axis, ſhe flies diametrically oppoſite; and the longer ſhe goes, the further ſhe is from you.

I am glad (ſaid Griffin) to hear that however.---Dame (continued he) whenever I depart, be ſure you die twelve hours after me: Syntax, who by this time had laid in an aſſortment of ſyllogiſms, ſome in *Barbara*, others in *Celarent*, according to the rules laid down in *Ariſtotle*, began once more.

To make (ſaid he) this matter out, will take much argument, no doubt, to clear it up as I intended.

Well, come ſays Griffin, wet your clay.
That's right, quoth Sancho, drink away.

And the leaſt ſaid is ſooneſt mended.

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A TABLE of Terms and Returns for 1788.

Hillary Term begins Jan. 23, and ends Feb. 12.

Returns or Eſſoign Days.		Ex.	Ret	Ap.	W. D.
In eight Days of St. Hillary, - -	Jan. 20	21	22	23	Wedn.
From the Day of St. Hillary, in 15 days -	27	28	29	30	Wedn.
On the Mor. of the Purif. B. V. M. -	Feb. 3	4	5	6	Wedn.
In eight Days of the Purif. B. V. M. -	9	10	11	12	Tueſd.

Eaſter Term begins April 9, ends May 5.

From the day of Eaſter in 15 Days	*April* 6	7	8	9	Wedn.
From the Day of Eaſter in 3 Weeks	13	14	15	16	Wedn.
From the Day of Eaſter in 1 Month	20	21	22	23	Wedn.
From the Day of Eaſter in 5 Weeks -	27	28	29	30	Wedn.
On the Morrow of the Aſcenſion Day -	*May* 2	3	4	5	Mond.

Trinity Term beigns May 23, ends June 11.

On the morrow of the Holy Trinity -	*May* 19	20	21	23	Friday
In eight Days of the Holy Trinity -	25	26	27	28	Wedn.
From the Day of the Holy Trinity in 15 Days	*June* 1	2	3	4	Wedn.
From the Day of the Holy Trin. in 3 Weeks	8	9	10	11	Wedn.

Michaelmas Term begins Nov. 6. ends Nov. 28.

On the morrow of All Souls, - -	*Nov.* 3	4	5	6	Thurſ.
On the morrow of St. Martin, - -	12	13	14	15	Saturd.
On the octave of St. Martin, - -	18	19	20	21	Friday
In 15 days from St. Martin, - -	25	26	27	28	Friday

N. B. No ſittings in Weſtminſter-hall on Aſcenſion Day, Midſummer Day, and the Purification.

The Exchequer opens eight days before any Term, except Trinity; before which it opens but four days.

Note, That the firſt and laſt days of every Term, are the firſt and laſt days of appearance.

POOR ROBIN'S TERMS.

For Nine-pence this Year
He offers his Ware;
Pray take it, and try all your Skill with it:
But if you won't try,
Yet he begs you will buy:
Then do what the d—l you will with it.

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POOR ROBIN,

1788.

PART THE SECOND.

Containing as near a Body can guess,
Eight Leaves of Instruction; however not less.

Golden Number 3.——Epact 2?.

ASTRONOMICAL CHARACTERS,

Planets		Signs *of the* Zodiac.	
☉	The Sun.	♈	Aries.
☽	The Moon.	♉	Taurus.
☿	Mercury.	♊	Gemini.
♀	Venus.	♋	Cancer.
♂	Mars.	♌	Leo.
♃	Jupiter.	♍	Virgo.
♄	Saturn.	♎	Libra.
☊	Ascending Node.	♏	Scorpio.
☋	Descending Node.	♐	Sagittarius.
☌	Conjunction.	♑	Capricorn.
☍	Opposition.	♒	Aquarius. ♓ Pisces.

THE ANATOMY.

This wondrious Scheme, so deep, so odd,
Let who would have a Hand in;
In one Thing's like the Peace of God,
It passeth Understanding.

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Of ECLIPSES.

THE Word Eclipſe in Engliſh is derived from the Latin Word *Eclipſis*, which again comes from the Greek Word Ἔκλειψις, which again moſt likely was derived from ſome Hebrew Root or other, ſignifying what the Latins call *Defectus Lucis*, or in plain Engliſh a defect of Light: For you muſt underſtand (Gentle Reader) that the Linguiſts in all Ages have been mightily addicted, when they wanted a Word, to borrow it out of the Language of the Ancients; and then, after having been in full poſſeſſion of it for a Century or two, to ſwear by the Blood of their Bodies it was their own: Though in taking the original Senſe along with it they are not ſo culpable; for Inſtance, the Word Dunce was taken from DUNS SCOTUS, a Man particularly eminent for his great Learning, deep Penetration, and Subtilty in Argument, inſomuch that he generally went by the Name of the *Subtle Doctor*. This Man dying—as moſt Biographers are of Opinion it was that which ſtop'd his Tongue—This Man dying, I ſay, thoſe of his Succeſſors who approached the neareſt to him in profound Learning and deep Penetration went by the Name of DUNS. In Proceſs of Time it was uſed by way of Irony (a Figure in Rhetoric) for a Perſon whoſe Intellects were defective, or according to the more modern Way of ſpeaking, had but a very indifferent Knowledge Box; ſuch a one went by the Name of DUNS, *Anglice* DUNCE, till at laſt the original Signification was quite forgotten, and the Word DUNCE at this Day means neither more nor leſs than a downright Blockhead.

As to the Alteration of the Spelling, nothing ever was more common, as will appear to any who will be at the Trouble of reading all our Authors from the Days of ancient Chaucer to the polite Age in which we now live. We have a notable Inſtance of this in the Authour of the Draper's Letters, who derives his Genealogy from King *Pepin*; ſome of the Branches of that royal Family in the next Age bore the Name of *Pippin*; and ſo in a Courſe of rolling Ages and circling Years, the royal and original Name changed from PEPIN to DRAPER in Manner following:

The firſt Alteration was from *Pepin* to *Pippin*; the next was from *Pippin* to *Pippikin*; again from *Pippikin* to *Nippikin*; then from *Nippikin* to *Napkin*; laſtly, from *Napkin* to *Diaper*; and from *Diaper* to *Draper*.

Another Cauſe of Alteration in the Spelling I take to be; that in borrowing Words from other Languages (which

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bye-the-bye were never designed to be paid again) at one and the same Time to suit it to the Idiom of the Language it was lent to, and to secure it for their own when they had it, it has ever been thought adviseable to lop off a Letter or two at the End of a Word, while Multiplication, Division, Consecration, Communion, Salvation, Damnation, *cum multis aliis*, ending in *i*, *o*, *n*, are Anglicis'd by the Addition of a Letter; whereas take away the Letter *n*, and the Latins would swear these Words and Hundreds more were all their own, in spite of an Englishman's Teeth.

On the other Hand, while these are anglicis'd by Augmentation, many others are made pure English by Contraction; thus, for Instance, *Sepulchrum* signifies a Sepulchre; *Monumentum*, a Monument; *Justus*, Just; *Unitas*, Unity; *Persona*, a Person; *Coralium*, a Coral; *Tempestus*, a Tempest; with many a Score of other Words that I could quote, and which are by this Means secured to the English Language, which else would flee away to their original Source, and not leave a sufficient Quantity (Gentle Reader) for our two learned Heads to communicate their Sentiments by.

But although, as I have already observed, that they are not always strict as to the original Sense, an Instance of which I gave in the Word DUNCE, and which I shall further prove in the Word Astrologer, which is derived from the Latin Word *Astrologus*, which came from the Greek Word ἀστρολόγος, which formerly signified a Man sapient in Futurity, by his wonderful Knowledge derived from Planetary Aspects: This same Word I say is at this Time in the Language of plain Sense, which (by the Way) is the best Language a Man can speak, if he has but a Head to hit upon it, no more than to call a Man a stupid Fool, or an idle, ignorant, loggerheaded Jack-Ass.

However, the Word Eclipse, *Eclipsis*, alias Ἔκλειψις, has apparently all along kept to its original Meaning, *viz.* an Obscuration, either partial or total, of somewhat, which otherwise would have shone in its native Lustre. Thus the Moon interposing betwixt the Sun and the Earth, hides, or in other Words, eclipses all or Part of that great Luminary: The Earth, on the other Hand, intervening between the Sun and the Moon, by how much she takes off the Sun's Rays, by so much also is that beautiful Object hid from our View. The Case is the same with Nelly and Roger, when Nelly hides Part of the Charms of a beautiful Face, by eclipsing it with a Patch, Roger, by Way of Revenge, forms another Eclipse by Means of a Pair of Buck-skin Breeches.

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Having in the preceding grammatical, logical, ecliptical Diſcourſe ſhewn my profound Learning, and given to the Reader the moſt deep Information, to the great Satisfaction (I doubt not) of us both, I proceed to illuſtrate the grand Phenomena of Eclipſes yet further, and make my numerous modeſt and ingenious Cuſtomers (I mean the Ladies) truly and exactly to comprehend the ſame; I would chuſe to follow the Steps of my late learned and ingenious Friend Mr. *B. Martin*, Publiſher of the Gentlemen and Ladies Philoſophy, who, by his familiar Precepts, added to his beautiful Quotations from that much admired Author, and great Enemy to Bombaſt the renowned Sir *Richard Blackmore*, had rendered Natural Philoſophy, for all the World like a gilded Cloſeſtool, doubly Valuable, both for its Beauty and its Uſe. But my Latin Poets being along with the Engliſh ones, and the Engliſh ones at the Pawnbrokers; at the ſame Time having neither Lunariums, Cometariums, nor Planetariums to elucidate the Matter, I have fix'd upon another Method, which I call a Walking Orrery, and which, I hope, will anſwer the End full as well as any or all of them put together: So, in imitation of the ingenious Gentleman above-mentioned, I begin my Philoſophy thus:

Black is the Sky, and Sable is the Ground,
And Clouds and Darkneſs hover all around.

Come, my dear *Euproſyne*, this dark Night and this ſilent Hour invite us to the Study of Philoſophy—Come, follow me to the Back-Yard without Diſmay; for in Order to hinder your delicate Foot from running o'er the Coal-Heap, to the great Detriment of your beautiful Leg, I have laid my laſt Coal upon the Fire Half an Hour ago.—I will now explain to that curious Enquirer, your ſagacious Soul, the true Cauſe of the Eclipſes of both or either of the Luminaries.—You ſee here, Madam, in the Middle of the Yard I fix a Broomſtaff into the Ground in a perpendicular Poſture—Then turning to my dear Lady, I ſay thus; Go, thou dear Partner of all my Midnight Lucubrations and Tranſactions, fetch me that End of a Farthing Candle ready lighted; ſhe brings it.—Now you ſee, Madam, with a Bit of Shoemaker's Wax I faſten the Candle-End upon the Top of the Broomſtaff—

'Tis done! thus I've accompliſh'd my Deſigns;
There ſticks the Broomſtaff, there the Candle ſhines.

Now full of this grand Deſign, and the wonderful and demonſtrative Effects it is to produce, I ſtand awhile amazed at my own Contrivance, and, in the fullneſs of my Heart, cannot help inwardly ſoliloquizing thus;

Ghoſt

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Ghoſt of my departed Father, what a damnable long Way thy Son is off from being a Fool?

But the Conſideration of the Smallneſs of my Candle-End awakes me from my Reverie, and I proceed as follows:—This Candle, Madam, you muſt conceive to be that glorious Luminary the Sun,

> Who ſhining here in his reſplendent Robe,
> Packs off the Night to th' other Side the Globe.

Now while I am walking round this beautiful Sun of mine, do you friſk it with your wonted Gaiety round me, in ſuch Sort that you may make thirty Revolutions while I am making one.—Now, Madam, by Analogy, my Head, being thick and heavy, very naturally repreſents that ponderous Maſs of Matter the Earth; while, by the ſame logical Reaſoning, yours being a pretty little light one, and ſubject to much Variation, will exactly figure out the Moon.—Now we run our Celeſtial Round.—Stop!—Now you are between me and the Sun, and your light Head ſhadows Part of my heavy one; take it a little nearer the Candle.—Now you ſee, Madam, your Head quite over-ſhadows mine.—Now this you may ſuppoſe is to you an Eclipſe of the Earth, while to an Inhabitant on my Head, a Louſe for Inſtance, it will appear an Eclipſe of the Sun.—Pleaſe, Madam, to form another Half Circle?—I do.—Hold up your Head;—Now you ſee mine only ſhades your Chin.—Hold it rather down—Now it ſhades your Forehead.—Draw a little nearer me—Now you ſee that my great, thick, clumſy Skull quite over-ſhadows your pretty little light one.—Now this figures out to you an Eclipſe of the Sun, and to me an Eclipſe of the Moon; and, in both Caſes, the one is partial, the other total.

I underſtand it very clearly, ſays *Euproſyne*.—But pray, while I repreſent the Moon, what inclines me to creep nearer you at one Time than another?—It is, replied I, Attraction and Gravitation.—And pray how many Eclipſes have we this Year?—Only two, Madam; both of the Sun; but both inviſible to us. The firſt begins on the Fourth of June, at about half paſt Seven in the Morning; the other on the Twenty-ſeventh of November, about ſix in the Evening.

I was wiſhed by ſeveral Sons of Urania to prolong this Lecture, but I poſitively refuſed it; right wiſely alledging, that four Pages upon two Eclipſes (and both of them inviſible) were abſolutely ſufficient.

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A TABLE *shewing the* MOON'S SOUTHING *for the to do with her either*

M D	Jan. H. M.	Feb. H. M.	March. H. M.	April. H. M.	May. H. M.	June. H. M.	M D
1	6M 25	7M 22	6M 56	8M 4	8M 14	9M 13	1
2	7 11	8 11	7 45	8 49	8 59	10 7	2
3	7 58	9 0	8 32	9 33	9 47	11 6	3
4	8 46	9 48	9 18	10 17	10 35	0A. 8	4
5	9 34	10 35	10 3	11 2	11 28	1 11	5
6	10 23	11 20	10 47	11 50	0A 25	2 13	6
7	11 12	0A 47	11 31	0A 41	1 25	3 11	7
8	11 59	0 57	0A 15	1 35	2 26	4 6	8
9	0A. 45	1 30	1 0	2 32	3 27	4 58	9
10	1 29	2 14	1 48	3 31	4 26	5 47	10
11	2 12	3 59	2 39	4 31	5 22	6 34	11
12	2 54	3 46	3 33	5 30	6 14	7 22	12
13	3 36	4 37	4 30	6 27	7 4	8 10	13
14	4 19	5 32	5 29	7 21	7 52	8 58	14
15	5 5	6 29	6 28	8 13	8 39	9 48	15
16	5 54	7 30	7 26	9 3	9 27	10 38	16
17	6 47	8 31	8 24	9 52	10 16	11 28	17
18	7 44	9 31	9 19	10 40	11 5	Morn.	18
19	8 45	10 29	10 11	11 29	11 56	0 18	19
20	9 48	11 24	11 2	Morn.	Morn.	1 6	20
21	10 51	Morn.	11 52	0 20	0 47	1 52	21
22	11 52	0 17	Morn.	1 11	1 38	2 36	22
23	Morn.	1 8	0 42	2 2	2 27	3 19	23
24	0 49	1 57	1 32	2 53	3 15	4 1	24
25	1 42	2 17	2 23	3 43	4 0	4 42	25
26	2 33	3 36	3 14	4 32	4 44	5 25	26
27	3 22	4 26	4 5	5 19	5 27	6 9	27
28	4 9	5 16	4 55	6 5	6 9	6 56	28
29	4 57	6 6	5 41	6 49	6 52	7 47	29
30	5 44		6 33	7 32	7 34	8 52	30
31	6 33		7 20		8 23		31

YEAR

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YEAR 1788, *highly neceſſary for all who have any Thing by Land or Water.*

M D	July. H. M.	Aug. H. M.	Sep. H. M.	Oct. H. M.	Nov. H. M.	Dec. H. M	M D
1	9M42	11M29	0A57	1A29	2A54	3A. 7	1
2	10 45	0A26	1 49	2 23	3 45	3 52	2
3	11 48	1 21	2 41	3 16	4 33	4 35	3
4	0A50	2 14	3 33	4 8	5 19	5 17	4
5	1 49	3 5	4 25	4 59	6 4	5 58	5
6	2 44	3 55	5 17	5 49	6 47	6 39	6
7	3 35	4 45	6 8	6 37	7 29	7 22	7
8	4 24	5 35	6 58	7 22	8 11	8 7	8
9	5 13	6 25	7 47	8 6	8 54	8 56	9
10	6 2	7 16	8 34	8 49	9 39	9 49	10
11	6 50	8 7	9 19	9 32	10 27	10 45	11
12	7 40	8 56	10 2	10 15	11 18	11 44	12
13	8 30	9 44	10 45	11 0	Morn.	Morn.	13
14	9 20	10 30	11 28	11 47	0 13	0 44	14
15	10 9	11 14	Morn.	Morn.	1 11	1 44	15
16	10 58	11 57	0 12	0 36	2 10	2 42	16
17	11 55	Morn.	0 57	1 28	3 9	3 38	17
18	Morn.	0 39	1 44	2 23	4 6	4 31	18
19	0 31	1 22	2 33	3 20	5 1	5 21	19
20	1 14	2 5	3 25	4 18	5 54	6 10	20
21	1 56	2 50	4 20	5 16	6 44	6 58	21
22	2 37	3 37	5 17	6 12	7 33	7 47	22
23	3 19	4 27	6 15	7 6	8 22	8 37	23
24	4 2	5 20	7 14	7 58	9 12	9 28	24
25	4 48	6 16	8 11	8 49	10 2	10 19	25
26	5 36	7 15	9 6	9 40	10 54	11 11	26
27	6 28	8 15	10 0	10 31	11 46	0A. 1	27
28	7 24	9 15	10 52	11 23	0A39	0 48	28
29	8 23	10 14	11 44	0A15	1 30	1 34	29
30	9 25	11 11	0A37	1 8	2 20	2 18	30
31	10 27	0A. 5		2 1		3 0	31

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A TABLE of all the KINGS and QUEENS of *England* since the CONQUEST in 1066.

Names of Kings.	*Born* A.D.	*When they began to reign.*	*Reigned* Y.	M.	*Since their reigns ended.*	*Where buried*
William I.	1027	1066, Octob. 14	20	11	1701, Septem. 9	Caen Nor.
William II.	1057	1087, Sept. 9	12	11	1688, Auguſt. 2	Wincheſt.
Henry I	1068	1100, Aug. 2	35	4	1653, Decemb. 1	Reading
Stephen	1105	1135, Dec. 1	18	11	1634, Octob. 25	Feverſham
Saxon Line reſtored.						
Henry II.	1133	1154, Octob. 25	34	8	1599, July 6	Fountever
Richard I.	1156	1189, July 6	9	9	1589, April 6	Fountever
John	1165	1199, April 6	17	6	1572, October 19	Worceſter
Henry III.	1207	1216, Octob. 18	56	1	1516, Novem. 16	Weſtmin.
Edward I.	1236	1272, Nov. 16	34	8	1481, July 7	Weſtmin.
Edward II.	1284	1307, July 7	19	7	1461, Jan. 25	Glouceſt.
Edward II.	1312	1327, Jan. 25	50	5	1411, June 21	Weſtmin.
Richard II.	1366	1377, June 21	22	3	1389, Septem. 29	Weſtmin.
Lancaſter Line						
Henry IV.	1367	1399, Sept. 29	13	6	1375, March 20	Canterb.
Henry V.	1389	1413, March 20	9	5	1366, Auguſt 31	Weſtmin.
Henry VI.	1421	1422, Auguſt 31	38	6	1327, March 4	Windſor
York Line.						
Edw. IV.	1442	1461, March 4	22	1	1305, April 9	Windſor
Edward V.	1471	1483, April 9	0	2	1305, June 22	Unkno.
Rich. III	1443	1483, June 22	2	2	1303 Auguſt 22	Leiceſter
Families united.						
Henry VII.	1456	1485, Aug. 22	23	8	1279, April 2	Weſtmin.
Hen. VIII.	1492	1509, April 22	37	9	1241, Jan. 28	Windſor
Edw. VI	1537	1547, Jan. 28	6	5	1235, July 6	Weſtmin.
Q. Mary.	1516	1553, July 6	5	4	1230, Nov. 17	Weſtmin.
Q. Eliſab.	1533	1558, Nov. 17	44	4	1185, March 24	Weſtmin.
Crowns united						
James I.	1566	1603, March 24	22	0	1163, March 27	Weſtmin.
Charles I.	1600	1625, March 27	23	10	1139, Jan. 30	Windſor
Charles II.	1630	1649, Jan. 30	36	0	1103, Feb. 13	Weſtmin.
Jame II.	1633	1685, Feb. 13	4	0	99, Feb. 13	S. Germ.
Will. III.	1650	1689, Feb. 13	13	1	86, March 8	Weſtmin.
Q. Anne	1665	1702, March 8	12	5	74, Auguſt 1	Weſtmin.
George I.	1660	1714, Auguſt 1	12	10	61, June 11	Hanover
George II.	1685	1727, June 11	33	4	28, Octob. 25	Weſtmin.
Geo. III.	1738	1760, Oct. 26	Crowned Sept. 22, 1761.			

For our great Monarch, Day by Day
Let Soldiers fight, and Biſhops pray;
I'll do my Part likewiſe:
For while the plodding Stateſmen think,
I'll calmly ſit me down and drink,—
And that will help Exciſe.

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A Chronological Account of remarkable Occurrences.

SINCE

	Years.	
THE Creation of the World		5892
The general Deluge, or *Noah*'s Flood		4139
The Birth of *Abraham*		3787
The Foundation of *Solomon*'s Temple		2893
The Babyloniſh Captivity		2495
The Birth of our bleſſed Lord and Saviour *Jeſus Chriſt*		1787
His Paſſion, glorious Reſurrection		1755
The beginning of the Ten Perſecutions by *Nero*		1716
The Tower of LONDON built		1219
Cambridge made an Univerſity		1143
Oxford made an Univerſity		917
William Duke of *Normandy* conquered *England*		722
The Invention of Guns		410
The Art of Printing firſt invented at *Harleim*		358
A great Plague in *London*, whereof died 30,578,		186
The horrid Gunpowder Treaſon		183
The Holy Bible new tranſlated		181
Plague in *London*, of which, and other Diſeaſes died 54,266		163
New England planted		158
King *Charles* I. beheaded		140
King *Charles* II. reſtored		128
Another Plague in *London*, whereof, &c. died near 100,000		123
13,200 Houſes burnt in *London*		122
A great Comet appeared in *December* and *January*		108
The great 13 Weeks Froſt		104
King *William* III. and Queen *Mary* crowned, *April* 11		99
England and *Scotland* united		81
St. Paul's in *London* finiſhed		80
Queen *Anne* died *Auguſt* 1; and King *George* I. began		74
Preſton Rebellion		73
King *George* I. died *June* 11; and King *George* II. procl. 16		61
A ſplendid Comet, ſeen from *Dec.* 23 to *Feb.* 20		45
A Rebellion, when the Rebels came ſo far as *Derby*		43
The Date and Calendar altered		42
The Militia Act paſſed		30
King *George* II. died *Oct.* 25; and King GEORGE III. began		28
King GEORGE III. and Queen CHARLOTTE crowned *Sept.* 22		28
Peace with France and Spain		24
The Swedes forced to reſign their Liberties to the King		16
War commenced againſt North America		13
The Americans declare themſelves Independent States		12
The French ſigned the firſt Treaty with the American States		10
War againſt France commenced		10
War was begun againſt Spain		9
War againſt Holland commenced		8
A general Peace		5

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The Delectable STORY *of the Renowned* SOLOMAN SNIP, *and his Partner* PEGGY, *continued or discontinued as the Case may happen.*

THERE is a strange Fatality attends me through all the Chances and Changes in this transitory Life, that, I think, never poor Devil of a little Hero was so plagued and pestered in every Turn and Bye Lane of Life as I am.—If I run Itumble over something: If I walk, somewhat is sure to tumble on the Top of me; so from Day to Day, and Hour to Hour, such Crosses, Rubs, Disappointments and stumbling Blocks are continually laid in my Way; that while I am hasting point blank with all speed to one Thing, I am sure to knock my Head against another.—An instance of this you have in this Year's Continuation of the learned and edifying Discourse carried on at Farmer Griffins, when I was about to introduce that worthy Divine the Reverend Mr. Martext. When I had with infinite Labour brushed his Shoes, stiffened his Bands, tied on his short Black Cloak; pulled up his Hose and buttoned fast his Breeches Waistband.—I say after I fixed in his Eyes the look of Sanctification; had pricked up his Ears, let down his Chin as low as his Belly-piece, put a Twang in his Nose, and a Text in his Jaws; while I had drawn his Mouth into the exact Form of a Cow's Urinal when she is watering; after all this infinite Care and Pains; just as I was going to introduce him, and had my Fist clenched and my Knuckles up, just ready to knock at the Door; in bounces honest Sancho, and drove poor Martext as much out of my Head, as if there had never been a Cushion Thumper in the World.

This Disappointment I bore with Christian Fortitude; but when I came to this Part of my learned History, which like the Witch of the Woodlands never was published before, nor ever will be again, and for which Reason I make no doubt but when it becomes extremely scarce, it will be extremely valuable, and the Antiquarians and Collectors of Ancient Books will be bidding twenty Guineas for a Poor Robin for the Year 1782, one Guinea for a single Leaf in the Year 1787; provided it was such a Page, and printed for the Company of Stationers, just to complete their Collections of the Ancient Wit and Knowledge. I must needs say that although not for my own Sake, as Praise will do me very little good, when I am dead and cannot hear it; yet, for the Sake of those Sons of Genius and Sentiment, who may tread this Terraqueous Globe

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Globe about five hundred Years after I had done with the World, and even them, who perhaps for want of a better, made a Football of my Scull. For these, I say, I grieved much; when examining the Papers which I told you before, were found between the Bed and the Wall in the Room where poor Snip died, nibbled away, I suppose by Mice.—There was a Scene of Contemplation.—I am sorry, (said I,) extremely sorry.—At what, said my Lady.—See here, said I, the Labours of a prolific Brain lost for ever.—The Picture of your own, said she.—I replied, not so; for mine have been printed, and these never were.—They are lost for ever.—Oh! that the Works of an ingenious Brain should perish in so ignoble a Manner. What a Plague (said I) is not Bread, Cheese, Flour, Oatmeal, &c. sufficient for the Mice, but they must destroy the Works of Genius: what the Deuce did Wit ever do against those cursed Freebooters.—Why, said she, did not the wit of Man contrive a Mousetrap?—I was pleased, with the Remark;—I was displeased with the Repartee;—so betwixt both, I neither blessed her nor cursed her.—I took a fresh Line.—I will tell you what my Love, said I:—it was observed in one of the Essays of the Ingenius Dr. Goldsmith. "That "there is nothing magnanimous in bearing Misfortunes with "Fortitude, when the whole World is looking on: Men in "such Circumstances will act bravely, even from Motives of "Vanity; but he who in the Vale of Obscurity, can brave "Adversity; who without Friends to encourage, Acquaintance "to pity, or even without Hope to alleviate his Misfortunes, "can behave with Tranquillity and Indifference, is truly great: "whether Peasant or Courtier, he deserves Admiration, and "should be held up for our Imitation and Respect.——While "the slighteſt Inconveniencies of the Great are magnified into "Calamities;—While Tragedy mouths out their Sufferings "in all the Strains of Eloquence, the Miseries of the Poor "are intirely disregarded; and yet some of the lower Ranks of "People undergo more real Hardships in one Day, than those "of a more exalted Station suffer in their whole Lives, without murmuring or regret, without passionately declaiming "against Providence, or calling their Fellows to be Gazers "on their Fortitude."

When I had quoted the Passage before mentioned, I examined my own Premisses.—There I found an empty Cupboard, a Barrel standing upon one of its Ends; and a very clean Spot, where once stood a little Coal Heap—I never once dreamt of complaining to the World in Heroicks about such Trifles as those; but went as cool as a Cucumber to the Candlebox;—that was empty too. What do you want, says my dear

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dear Lady.—To go to bed, ſaid I.—That you may do, ſays ſhe, as ſoon as you pleaſe.—God for ever bleſs you my dear, ſaid I, and thank you, for your Liberty, Madam: but, I want to write a while.—That you may do too, replied ſhe, if you can do it by Moonlight; for you waſted the laſt Bit we had, with writing your laſt Night's Nonſenſe.—Being a very meek Man (a Virtue which I ſuppoſe I inherit from my Father, for my Mother had as much Spirit in her as other Women)—I ſaid to myſelf;—I wiſh my good Maſters, the Company of Stationers, would be ſo good as to augment my Salary, for writing theſe Poor Robins by Farthing Candles plays the Devil with weak Eyes.—All this I endured without either calling Heaven, Earth, or even Hell to Witneſs my Misfortunes.—Dr. Goldſmith, ſaid I to myſelf, you are right.—There are Multitudes of Noble Souls in the World, whom the World knows nothing of; and of whom, indeed, the World is not worthy. Witneſs the Curate of—(I cannot juſt now name the Place) who ſerved but three Livings for the amazing Sum of forty Pounds a Year; although he had only a Wife and ſix Children to maintain out of it:—The Rector, his Maſter, who lived upon his own Eſtate, and to be ſure allowed him generouſly, conſidering that all the three did not amount to much more than four Hundred and Fifty, wrote him a Letter, wiſhing him to exerciſe his Genius to the uttermoſt Stretch, and make him an excellent Sermon againſt all Kinds of Smuggling; as he was to preach it at an Aſſize before a learned Judge, in a Maritime County.—Did he call Heaven and Earth to Witneſs his unhappy Fate;—No.—He ſat him down coolly and a learned Diſcourſe againſt robbing the King of Dues, by the Light of a Candle of his own making.

For my Part, I muſt needs ſay, that I find more Delight in picking up every Scrap of Intelligence I can find in the Hiſtory of Solomon *Snip* and his Partner *Peggy*, than in reading the tragical Hiſtory of the greateſt Heroes of Antiquity, who wading to Empire through Rivers of Blood, deſtroyed one Half the World, that they might enſlave the other: Beſides theſe are Scenes, in which I, nor Millions beſides me, can ever act; therefore, how good ſo ever the Moral may be, it is loſt to us, becauſe we never can practice the Leſſon; but the humble Scenes exhibited in the Cottage of the Peaſant ſtrike home to every Breaſt. That through the Croſſes, and Diſappointments attendant upon the fluctuating Scenes of this tranſitory Life, tormenting Thoughts and dreadful Apprenhenſions ſhould pain the Head, is an Affair common to the Children of Mortality; but, when Poverty uncovers the Back, and

— Famine

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Famine with his Bony Fingers pinches the Belly of the unhappy Mortal, disregarded by the Rich and unnoticed by all; —I say, to see this Man travel through the thorny Vale of Indigence without Despondency; is a Sight which the Gods might look upon with Applause; To see Genius in spite of Poverty emerging to Light; and Fancy dressing up new and Shining though visionary, Scenes, amidst the darkest Shades of Adversity, is the most certain Indication of the wonderful Powers vested in the Human Soul.

It was in such a State as this that we left poor *Snip* and *Peggy* at the Conclusion of our last Year's Performance; I will now endeavour, from what I can collect from the shatter'd Remains of my Manuscript, to proceed with the Prologue — *Snip* after having, by the magical Powers of an inimitable Fancy, transformed his old tatter'd Garment into a high and finish'd Scene of a noble and curious Portico, embellished with all the Skill of Architecture, humble advances.—He looks round with Astonishment at the august Assembly—for the same enchanting Powers of Imagination, which had worked such Wonders upon his old Coat, had expanded his little Hut into a noble Theatre—turn'd *Peggy* into a Princess—the Bitch into a Maid of Honour—her blind Puppies into Cabinet Council Men—and the Mice into Courtiers: who are always creeping round the Throne and nibbling at Preferment.

Struck with the Grandness of the apparent Scene, and the high Quality of his splendid Audience; with Awe he bowed, and spoke as follows——

LADIES AND GENTLEMEN,

To raise the Soul by Means of Wood and Wire;
To skrew the Fancy up just one Peg high'r;
In Miniature to shew the World at large,
As Folks conceive a Ship, who've seen a Barge;
Or by a Halfpenny a Man may know
(Can he count Twenty-four) how Shillings go:
This is the Scope of all our Actor's Play,
In hopes their Wooden Aims will not be thrown away.

Now pray, says *Peggy*, looking very serious,
No Gibe or Glance at any Thing mysterious:

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But be your whole Performance chaſte and good,
Like honeſt Actors made of Chriſtian Wood.
My Liege, ſays *Snip*, let that Idea vaniſh,
All Ribaldry from this chaſte Stage we baniſh:
Be each Thing done to ſuit your Royal Will—
(For *Snip* thought *Peggy* was a Princeſs ſtill.)

He continued his Prologue as follows:

Æſop whoſe Works demand our laſting Praiſe,
What was he but the Punch of former Days?
He who made Fiſhes, Birds, and Beaſts to ſpeak,
And even Trees hold Dialogues in Greek.
Yet he (ſays Hiſtory) in outward Shape,
Was but an ill drawn Figure of an Ape;
His Features all diſtorted, and the Bunch
Upon his Back, ſpeaks him the ancient Punch.
Then marvel not, if on the preſent Night,
While we endeavour all for your Delight,
You ſee around new Rocks and Mountains riſe,
While Vallies ſink before your wond'ring Eyes;
New Skies where never ſcorching Suns appear,
No Tempeſt howls, no Thunder rends the Air:
But all around is ſmiling and ſerene,
Like Cupids waiting on the Cyprian Queen

Peggy's Head here began to be rather turn'd. When a Perſon has only once taſted the Streams of Parnaſſus, 'tis an eaſy Matter to get intoxicated.—*Snip* proceeded—He ſaw Joy ſparkle in her Eye—Perſuaſion dwelt upon his Tongue.—She was all Attention; he all Eloquence—To make ſhort of it, he went on as follows:——

Behold a Scene that's wondrous, great, and new,
Behold Elyzium opens to your View!
The Right bedeck'd with Rocks and lofty Mountains,
And Lawns, and flow'ry Vales and Chryſtal Fountains;
While,

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While, at a Diſtance, you may dimly ſcan
The ſilent Groves which Zephyrs gently fan.
And here the Shades of ancient Heroes bold,
Crown'd with eternal Laurels you behold;
And in yon Thicket ſee the verdant Bow'rs,
Where Heſiod and Homer ſpend their Hours.
Princeſs! behold you theſe delightful Walks,
'Tis there the great majeſtic Virgil ſtalks.
That Road will lead you to the Shade of Plato,
And in yon ſpacious Cave dwells the unconquer'd Cato.

Poor *Peggy's* Head could bear no more.—Rap'd in the beatific Viſion of Enthuſiaſm, *Peggy* now grew as delirious as *Snip*.—All the calm Beauties of Elyſium, as pictured out by the Poets; all the Pageants and Shews of Greece and Rome poſſeſſed her Mind. The Souls of Plautus and Terence ſtood in full Appearance before her—She was now more than commonly Royal.—She ſtarted up in all the Pomp of ragged Majeſty, and taking the only Blanket ſhe had from the Bed, wrapp'd it round the two Armed Chair, and ſat upon it as a Throne.—Happy Pair! How filly it is to wiſh for Soul-unſatisfying Riches, while Ideal Power makes us much happier.—Oh, could this but continue, what Genius would change Places with a Lord? But unhappily as the Princeſs was ſtooping down to reach a Chair without a Back for her Footſtool, bump goes her Head againſt a crazy Table, down fell that; out goes the Candle; the Maid of Honour fell a barking; the two Cabinet Council ſat ſilent; and the Courtiers in the Cupboard ſneak'd away, leaving *Peggy* and *Snip* to go to Bed in the Dark.

This ſudden and unexpected Misfortune, whatever Effects might have upon Orator *Snip* and Princeſs *Peggy*, happened very lucky for me, for my Head was ſo entirely taken up with gentle Zephyrs, ſilent Groves, Silver Streams, and cooling Shades, that I began to ſuſpect that Charon had ferried me over when I was aſleep, and was juſt about to enquire for my Great Great-Grandfather, the firſt Projector of this learned and wonderful Performance, when this Accident happening awaked me from my Reverie, juſt Time enough to find that while I had buſied my Head with other Peoples Buſineſs I had neglected my own, having arrived at my laſt Leaf, and the Sea-

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Seaſons as yet unſung. I therefore now haſte to a Concluſio with the following Obſervations:

Winter, with which the Year begins, continues until the Sun enters the firſt Scruple of Aries; then the jocund Spring makes his firſt Appearance; and he is the Forerunner of Fleas and Fornication.

When Warmth and Moiſture give to all Things Birth,
And Heav'n's Indulgence broods upon the Earth.

Spring walks forward with ſmiling Face, while the Sun is purſuing his Courſe Northward through Taurus and Gemini; and, upon his ingreſs into Cancer, introduces the flaring Summer, and then modeſtly retires.

With mellow Note each Warbler ſings,
With Songs of Joy the Woodland rings,
And Warming-Pans are uſeleſs Things.

Summer, having prepared the Earth to unboſom her Stores, at what Time Sol enters upon Libra, introduces buſy Autumn, and then departs. Autumn remains

Till Shouts of Joy, Muſic and jocund Song
Accompany the Harveſt Cart along.

This done, and the Sun retiring to Capricorn; Autumn recedes, and chilling Winter begins his gloomy Reign.

Now nipping Froſts reſtrain the rolling Floods,
And Winds howl dreadful through the naked Woods.
Now Generoſity thy Bleſſings ſhed,
Where Sorrow waits around the ſick Man's Bed.
With chearful Step go ſeek the gloomy Cell,
Where Orphans cry, and lonely Widows dwell;
So may Death prove to thee a welcome Gueſt,
And wing thy Soul to everlaſting Reſt.

FINIS.

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Speculum Anni:

OR,

SEASON on the SEASONS,

For the Year of our LORD 1788;

BEING THE

BISSEXTILE, OR LEAP YEAR.

Wherein you will find all Things neceſſary for ſuch a Work; Sun and Moon's Riſing and Setting; Moon's Southing, Planets Places and Aſpects, Eclipſes, Judgments on the Weather, and Four Quarters; Remarks about the Sun, Monthly Poetry, and other Novelties.

By HENRY SEASON,

LICENSED PHYSICIAN,

And Student in the Celeſtial SCIENCES, near DEVIZES.

With a particular Judgment of the Eclipſes, &c.

Omnis donatio bona, & omne integrum bonum
Eſt ſuperne deſcendens à patre Luminum. Jac. 1. 17.

God hath granted me to ſpeak according to my Mind, and to judge worthily of the Things that are given me; for he is the Leader unto Wiſdom, and the Director of the Wiſe: Holy the Times alter, the Change of the Seaſons, the Courſe of the Year, and the Situation of the Stars. Wiſd. ch. [illegible] 19.

The ſacred Fiat! no ſooner nam'd,
But Heav'n with all its Hoſts were [illegible]
Phœbus diſplay'd his fiery Car,
And Wiſdom marſhall'd ev'ry Star;
Six Worlds around the Sun did glide,
He gave their Light, and Motions guide;
By ſecret, fix'd, attractive Laws,
They all confeſs th' Almighty Cauſe.

The AUTHOR's Fifty-fifth Impreſſion.

LONDON,

Printed for the COMPANY of STATIONERS,

and ſold by ROBERT HORSFIELD, at their Hall, in Ludgate-ſtreet.

[Price NINE-PENCE ſtitched.]

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The common Notes for the Year 1788.

The Golden Number	3	Shrove-Sunday	Feb. 3
The Epact	22	Aſh-Wedneſday	6
The Cycle of the Sun	5	Eaſter-Day	Mar. 27
Dominical Letter	F E	Whit-Sunday	May 11
Roman Indiction	6	Advent-Sunday	Nov. 30
Septuageſima Sunday	Jan. 20	Sundays after Trinity	27

The 12 Signs.	The 7 Planets, and the Aſpects.
♈ Aries	☉ Sun
♉ Taurus	☽ Moon
♊ Gemini	♄ Saturn
♋ Cancer	♃ Jupiter
♌ Leo	♂ Mars
♍ Virgo	♀ Venus
♎ Libra	☿ Mercury
♏ Scorpio	☌ Conjunction
♐ Sagitary	⚹ Sextile
♑ Capricorn	□ Square
♒ Aquarius	△ Trine
♓ Piſces	☍ Oppoſition

The four Quarters of the Year.

	d	h	m	
Spring Quarter begins	March 19	10	3	Aftern.
Summer Quarter begins	June 20	8	2	Aftern.
Autumn Quarter begins	Sept. 22	9	42	Morn.
Winter Quarter begins	Dec. 21	2	14	Aftern.

Venus is an Evening Star till Aug. 8, and then a Morning Star for the reſt of the Year.

Jupiter is an Evening Star till June 29, then a Morning Star for the reſt of the Year.

A TABLE

A TABLE of the KINGS and QUEENS of England, from the CONQUEST to the present Year 1788.

Names of Kings.	Born Ann.	When Began to reign.	Reign. Y.	Reign. M.	Since their Reign ended.	Buried at
William 1	1029	1066, Octob. 14	20	11	701, Septem. 9	Caen, Nor.
William 2	1057	1087, Sept. 9	12	11	688, Auguſt 2	Winchaſt.
Henry 1	1068	1100, Aug. 2	35	4	653, Decemb. 1	Reading.
Stephen	1105	1135, Dec. 1	18	11	634, Octob. 25	Feverſham
The Saxon Line Reſtored.						
Henry 2	1133	1154, Oct. 25	34	8	599, July 6	Fontevr.
Richard 1	1156	1189, July 6	9	9	589, April 6	Fontevr.
John	1165	1199, April 6	17	6	572, Octob. 19	Worceſter
Henry 3	1207	1216, Oct. 19	56	1	516, Nov. 16	Weſtmin.
Edward 1	1239	1272, Nov. 16	34	8	481, July 7	Weſtmin.
Edward 2	1284	1307, July 7	19	7	461, Jan. 25	Glouceſter
Edward 3	1312	1327, Jan. 25	50	5	411, June 21	Weſtmin.
Richard 2	1366	1377, June 21	22	3	389, Sept. 29	Weſtmin.
The Line of Lancaſter.						
Henry 4	1367	1399, Sept. 29	13	6	375, March 20	Canterb.
Henry 5	1389	1413, Mar. 20	9	5	366, Auguſt 31	Weſtmin.
Henry 6	1421	1422, Aug. 31	38	6	327, March 4	Windſor
The Line of York.						
Edward 4	1442	1461, Mar. 4	22	1	305, April 9	Windſor
Edward 5	1471	1483, April 9	0	2	305, June 22	Unknown
Richard 3	1442	1483, June 22	2	2	303, Auguſt 22	Leiceſter
The Families United.						
Henry 7	1456	1485, Aug. 22	23	8	279, April 22	Weſtmin.
Henry 8	1492	1509, April 22	37	9	241, Jan. 28	Windſor
Edward 6	1537	1547, Jan. 28	6	5	235, July 6	Weſtmin.
Qu. Mary	1516	1553, July 6	5	4	230, Nov. 17	Weſtmin.
Qu. Eliz.	1533	1558, Nov. 17	44	4	185, March 24	Weſtmin.
The Union of the Two Crowns.						
James 1	1566	1603, Mar. 24	22	0	163, March 27	Weſtmin.
Charles 1	1600	1625, Mar. 27	23	10	139, Jan. 30	Windſor
Charles 2	1630	1649, Jan. 30	36	0	103, Feb. 6	Weſtmin.
James 2	1633	1685, Feb. 6	4	0	99, Feb. 13	S. Germain
Will. & Mary	1650	1689, Feb. 3	13	1	86, March 8	Weſtmin.
The Union of the Two Kingdoms.						
Qu. Anne	1665	1702, Mar. 8	12	5	74, Auguſt 1	Weſtmin.
George 1	1660	1714, Aug. 1	12	10	61, June 11	Hanover
George 2	1683	1727, June 11	33	4	28, Oct. 25	Weſtmin.
George 3	1738	1760, Oct. 25	Crowned Sept. 22, 1761.			

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A TABLE of TERMS and their RETURNS.

Hilary Term begins January 23, ends February 12.

Returns or Essoign-Days.		E	R	A	W D
In eight Days of St. Hilary,	Jan. 20	21	22	23	Wed.
In 15 Days of St. Hilary	27	28	29	30	Wed.
On the Mor. of the Purificat. of B.V.M.	Feb. 3	4	5	6	Wed.
In eight Days of the Purificat. of B.V.M.	9	10	11	12	Tues.

Easter Term begins April 9, ends May 5.

In 15 Days of Easter	April 6	7	8	9	Wed.
From Easter in 3 Weeks,	13	14	15	16	Wed.
From Easter in 1 Month,	20	21	22	23	Wed.
From Easter in 5 Weeks,	27	28	29	30	Wed.
On the Morrow of the Ascension-day,	May 2	3	4	5	Mon.

Trinity Term begins May 23, ends June 11.

On the Morrow of the Holy Trinity,	May 19	20	21	23	Frid.
In eight Days of the Holy Trinity,	25	26	2	28	Wed.
In 15 Days of the Holy Trinity,	June 1	2	3	4	Wed.
From the Day of the Holy Trin. in 3 W.	8	9	10	11	Wed.

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls,	Nov. 3	4	5	6	Thur.
On the Morrow of St. Martin,	12	13	14	15	Sat.
In eight Days of St. Martin,	18	19	20	21	Friday
In 15 Days of St. Martin,	25	26	27	28	Friday

N. B. No Sittings in Westminster-Hall on Ascension-Day, Midsummer-Day, and the 2d of February.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, The first and last Days of every Term are the Days of Appearance.

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A CATALOGUE of the Moſt Reverend, Right Reverend, and Reverend, the Archbiſhops, Biſhops and Deans, exerciſing Eccleſiaſtical Juriſdiction in England, 1788.

Archbiſhops.	Deans Names.	Names of the Sees.
Dr. John Moore	Dr. George Horne	Canterbury
Dr. Wm. Markham	Dr. John Fountayne	York
Biſhops.		
Dr. Robert Lowth	Bp. Pretyman	London
Dr. Thomas Thurlow	Hon. Dr. William Digby	Durham
Hon. D. Brownl. North	Dr. Newton Ogle	Winchester
Lord James Beauclerk	Dr. Nat. Wetherell	Hereford
Sir Wm. Aſhburnham	Dr. Charles Harward	Chicheſter
Dr. Charles Moſs	Lord Francis Seymour	Bath and Wells
Dr. Jonathan Shipley	Mr. W. Shipley	St. Aſaph
Dr. John Douglas	Dr. Jeff. Ekins	Carliſle
Hon. Dr. S. Barrington	Dr. John Ekins	Saliſbury
Dr. John Hinchliffe	Dr. Charles Tarrant	Peterborough
Hon. Dr. James Yorke	Dr. William Cooke	Ely
Dr. John Thomas	Dr. Thomas Dampier	Rocheſter
Dr. Richard Hurd	Dr. St. John	Worceſter
Dr. Beilby Porteus	Dr. George Cotton	Cheſter
Dr. John Butler	Dr. Jackſon	Oxford
Dr. John Roſs	Dr. Buller	Exeter
Dr. William Pretyman	Dr. Kaye	Lincoln
Dr. John Warren	Dr. Thomas Lloyd	Bangor
Hon. Dr. Ja. Cornwallis	Dr. Baptiſt Proby	Lichfield and Coventry
Dr. Samuel Halifax	Dr. Joſiah Tucker	Glouceſter
Dr. Lewis Bagot	Dr. Philip Lloyd	Norwich
Dr. Richard Watſon	Dr. Adams, Archdeac.	Llandaff
Dr. Edward Smalwell	Mr. F. Wollaſton, Prec.	St. David's
Dr. Chriſtopher Wilſon	Dr. John Hallam	Briſtol
	Bp. Thomas	Weſtminſter
Dr. Claud. Crigan		Sodor and Man
	Hon. John Harley	Windſor

The Names of the Learned Judges in the Law.

I. Right Hon. Lord Thurlow, Lord High Chancellor.
Richard Pepper Arden, Eſq; Attor. Gen. Arch. M'Donald, Eſq; Sol. Gen.

II. In the K. Bench. { Rt. Hon. W. Earl of Mansfield, L. C. J. / Sir Wm. Henry Aſhhurſt, Knt. } Fran. Buller, Eſq. / Sir N. Groſe, Knt.

III. In the Co. Pleas. { Rt. Hon. Al. Lord Loughborough, L. C. J. / Sir H. Gould, Kt. } John Heath, Eſq. / Sir J. Wilſon, Kt.

IV. In the Exchequer. { Sir James Eyre, Knt. L. C. B. / Sir Beaumont Hotham, Knt. } Sir Rich. Perryn, Knt. / Sir Alex. Thomſon, Knt.

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A TABLE shewing the Moon's Southing for Farmers and others that breed Cattle, but men and Seamen.

M D	Jan. h m	Feb. h m	Mar. h m	April h m	May h m	June h m	M D
1	6 m 25	7 m 22	6 m 56	8 m 4	8 m 14	9 m 13	1
2	7 11	8 11	7 45	8 49	8 59	10 7	2
3	7 58	9 0	8 32	9 33	9 47	11 6	3
4	8 46	9 48	9 18	10 17	10 35	0 a 8	4
5	9 34	10 35	10 3	11 2	11 28	1 11	5
6	10 23	11 20	10 47	11 50	0 a 25	2 13	6
7	11 12	0 a 4	11 31	0 a 41	1 25	3 11	7
8	11 59	0 47	0 a 15	1 35	2 26	4 6	8
9	0 a 48	1 30	1 0	2 32	3 27	4 58	9
10	1 29	2 14	1 48	3 31	4 26	5 47	10
11	2 12	3 59	2 39	4 31	5 22	6 34	11
12	2 54	3 46	3 33	5 30	6 14	7 22	12
13	3 36	4 37	4 30	6 27	7 4	8 10	13
14	4 19	5 32	5 29	7 21	7 52	8 58	14
15	5 5	6 29	6 28	8 13	8 39	9 48	15
16	5 54	7 30	7 26	9 3	9 27	10 38	16
17	6 47	8 31	8 24	9 52	10 16	11 28	17
18	7 44	9 31	9 19	10 40	11 5	morn	18
19	8 45	10 29	10 11	11 29	12 56	0 18	19
20	9 48	11 24	11 2	morn	morn	1 6	20
21	10 51	morn	11 52	0 20	0 47	1 52	21
22	11 52	0 17	morn	1 11	1 38	2 36	22
23	morn	1 8	0 42	2 2	2 27	3 19	23
24	0 49	1 57	1 32	2 53	3 15	4 1	24
25	1 42	2 47	2 23	3 43	4 0	4 42	25
26	2 33	3 36	3 14	4 32	4 44	5 25	26
27	3 22	4 26	4 5	5 19	5 27	6 9	27
28	4 9	5 16	4 55	6 5	6 9	6 56	28
29	4 57	6 6	5 44	6 49	6 52	7 47	29
30	5 44		6 33	7 32	7 36	8 42	30
31	6 33		7 20		8 23		31

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all the Months of the Year, very neceſſary for all eſpecially and more worthy of Notice to Water-

M D	July h m	August h m	Sept. h m	Oct. h m	Nov. h m	Dec. h m	M D
1	9 m 42	11 m 29	0 a 57	1 a 29	2 a 54	3 a 7	1
2	10 45	0 a 26	1 49	2 23	3 45	3 52	2
3	11 48	1 21	2 41	3 16	4 33	4 35	3
4	0 a 50	2 14	3 33	4 8	5 19	5 17	4
5	1 49	3 5	4 25	4 59	6 4	5 58	5
6	2 44	3 55	5 17	5 49	6 47	6 39	6
7	3 35	4 45	6 8	6 37	7 29	7 22	7
8	4 24	5 35	6 58	7 22	8 11	8 7	8
9	5 13	6 25	7 47	8 6	8 54	8 56	9
10	6 2	7 16	8 34	8 49	9 39	9 49	10
11	6 50	8 7	9 19	9 32	10 27	10 45	11
12	7 40	8 56	10 2	10 15	11 18	11 44	12
13	8 30	9 44	10 45	11 0	morn	morn	13
14	9 20	10 30	11 28	11 47	0 13	0 44	14
15	10 9	11 14	morn	morn	1 11	1 44	15
16	10 58	11 57	0 12	0 36	2 10	2 42	16
17	11 45	morn	0 57	1 28	3 9	3 38	17
18	morn	0 39	1 44	2 23	4 6	4 31	18
19	0 30	1 22	2 33	3 20	5 1	5 21	19
20	1 14	2 5	3 25	4 18	5 54	6 10	20
21	1 56	2 50	4 20	5 16	6 44	6 58	21
22	2 37	3 37	5 17	6 12	7 33	7 47	22
23	3 19	4 27	6 15	7 6	8 22	8 37	23
24	4 2	5 20	7 14	7 58	9 12	9 28	24
25	4 48	6 16	8 11	8 49	10 2	10 19	25
26	5 36	7 15	9 6	9 40	10 54	11 11	26
27	6 28	8 15	10 0	10 31	11 46	0 a 1	27
28	7 24	9 15	10 52	11 23	0 a 39	0 48	28
29	8 23	10 14	11 44	0 a 15	1 30	1 34	29
30	9 25	11 11	0 a 37	1 8	2 20	2 18	30
31	10 27	0 a 5		2 1		3 0	31

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JANUARY hath xxxi Days.

M D	♄ ♒	♃ ♓
1	26	19
6	26	19
11	27	18
16	27	18
21	28	17
26	28	17

New Moon the 8th day, at noon.
First Quarter the 16th day, at 10 in the morning.
Full Moon the 23d day, at 2 in the morning.
Last Quarter the 30th day, at 1 in the morning.

M. D	W D	Remarkable Days, &c.	☉ ♒	D ion gitude	D rites and sets	☌ ♐	♀ ♑	☿ ♒	Mut. Aſpects and Weather
1	T	Circumciſion	11	24 ♎ 8	1 m 19	20	29	19	☌ ♃ ☿
2	W		12	6 ♏ 35	2 30	20		20	Winds,
3	T		13	18 4[illegible]	3 39	19	2	22	cloudy and
4	F		14	0 ♐ 46	4 42	19	3	23	dismal wea-
5	S	Old Chriſt. d.	15	12 39	5 40	18	4	24	ther.
6	S	Epiphany	16	24 27	6 32	18	5	25	ſw. d. ✱ ♄ ☿
7	M	Plow Mond.	17	6 ♑ 14	7 15	18	7	27	☌ ☉ ☌
8	T	Lucian.	18	18 2	D ſets	17	8	28	
9	W		19	29 54	5 a 23	17	9	29	Froſty, but
10	T		20	11 ♒ 50	6 30	16	10	[illegible]	ſeaſonable.
11	F		21	23 53	7 39	16	12	2	
12	S	O New-y. d.	22	6 ♓ 5	8 47	16	13	4	Hil. Ca. T. b.
13	S	Is. aſt. Epiph.	23	18 28	9 57	15	14	5	☌ ☌ ♀
14	M	Ox. T. begins	24	1 ♈ 5	11 8	15	15	7	Snow or ſleet
15	T		25	13 59	morn.	14	17	8	△ ♃ ♀
16	W		26	27 12	0 22	14	18	10	Temperate.
17	T	O. Twelfth-d	27	10 ♉ 47	1 39	14	19	11	
18	F	Qu. b. d. kept	28	24 45	2 54	13	20	13	☍ ☌ ☌ ☿
19	S		29	9 ♊ 7	4 10	13	22	14	
20	S	Septuageſima	♒	23 50	5 16	13	23	16	Fabian.
21	M	Agnes	1	8 ♋ 51	6 11	12	24	17	
22	T	Vincent.	2	24 [illegible]	6 53	12	25	19	Rain or ſnow
23	W	Hil. Ter. beg	3	9 ♌ 10	[illegible]	12	27	20	
24	T		4	24 10	6 a 50	11	28	22	☌ ♄ ♀
25	F	Conv. S. Paul	5	8 50	8 13	11	29	23	Windy.
26	S		6	23 [illegible]	9 34	11	♑	25	
27	S	Sexageſima	7	6 ♍ 52	10 50	11	2	27	P. Aug. Fr. b.
28	M		8	20 10	morn.	10	3	28	
29	T		9	3 ♎ 0	0 5	10	4	♒	Variable.
30	W	K. Ch. I. mar.	10	15 28	1 16	10	5	1	
31	T		11	27 38	2 25	10	7	3	

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Unvex'd with Cares, and free from Pain,
Where Life ſtill wears an eaſy Chain,
May I in ſome ſequeſter'd Cot
(The World, and ev'n my Foes forgot,)
In tranquil Eaſe ſpin out the Day,
And ſweetly ſlumber Night away.

M D	☉ riſes h	n.	☉ ſets h	m
1	8	5	3	55
2	8	4	3	56
3	8	4	3	56
4	8	3	3	57
5	8	2	3	58
F	8	1	3	59
7	8	0	4	0
8	8	0	4	0
9	7	59	4	1
10	7	58	4	2
11	7	57	4	3
12	7	56	4	4
F	7	54	4	6
1	7	53	4	7
15	7	52	4	8
16	7	51	4	9
17	7	50	4	10
18	7	48	4	12
19	7	47	4	13
F	7	46	4	1
21	7	44	4	16
22	7	43	4	17
23	7	41	4	19
24	7	40	4	20
25	7	38	4	22
26	7	37	4	23
F	7	35	4	25
28	7	34	4	26
29	7	32	4	28
30	7	31	4	29
31	7	29		3

OBSERVATIONS.

I will magnify thee, O Lord, my King: I will praiſ thy Name for ever and ever.

While the latter Part of this annual Publicatior is devoted to thoſe Sons of Genius, who at thei leiſure Hours prefer an Enigma to an E O Table a Rebus to a Round at Cards; an Anagram to ar Alehouſe Revel; and innocent Recreation to al the Snares which Bacchus and Venus can lay to in-trap their Votaries; this Part I dedicate to ſoun and uſeful Knowledge; not without Hopes (as have the Pleaſure of ſeeing my humble Endeavour in this annual Production, by an Increaſe of th Sale as well as of kind and ingenious Correſpond ents) it is kindly received; and that when Deatl ſhall ſummon me away to the Bar of everlaſtin Judgment, my Plea may be that my Time was no ſpent in vain, but that while I ſojourned in thi Body, I ſaw and admired the Wonders of Creation and while others, more particularly called thereto have, by adding Learning and Ingenuity to th Truths of the Goſpel, indiſputably proved not onl his Exiſtence, but his Care and Government c the World, and his Love alſo in the Redemption c Mankind; be it mine to ſhew the Wonders of a Go in his wondrous Works.

O Lord, how wonderful art thou in all thy Work in Wiſdom haſt thou made them all; the Earth is fu of thy Goodneſs.

A few Lines which I have ſelected from the d ſervedly applauded Author of the Guardian, as th expreſs my Thoughts in better language than could do it myſelf, will, I hope, here not be u acceptable.

Speakt

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FEBRUARY hath xxix Days.

New Moon the 7th day, at 7 in the morning.
First Quarter the 14th day, at 9 at night.
Full Moon the 21st day, at 1 in the afternoon.
Laſt Quarter the 28th day, at 8 at night.

M D	♄ ♒	♃ ♓
1	29	17
6	♓	17
11	0	17
16	1	17
21	2	17
26	2	17

M D	W D	Remarkable Days, &c	☉ ♒	☽ longitude	☽ riſes and ſets	♂ ♑	♀ ♓	☿ ♒	Mut. Aſpects and Weather
1	F		12	9 ♐ 35	3 m 27	10	8	5	Froſt.
2	S	Purif. Candl.	13	21 24	4 21	9	9	6	△ ♂ ♀
3	F	Quinquageſ.	14	3 ♑ 9	5 6	9	10	8	Blaſe
4	M		15	14 56	5 42	9	12	10	
5	T	Shrove Tueſ.	16	26 47	6 13	9	13	11	Aga. △ ☉ ♃
6	W	Aſh-Wedneſ.	17	8 ♒ 45	6 36	9	14	13	Temperate,
7	T		18	20 52	☽ ſets	9	15	15	for the ſeaſon
8	F		2	3 ♓ 8	6 a 30	9	16	17	□ ♃ ♀, △ ♃ ☿
9	S		21	15 35	7 42	9	18	18	
10	F	Quadrageſ.	22	28 12	8 54	8	19	20	
11	M		23	11 ♈ 1	10 6	8	20	22	♂ ☉ ☿
12	T	Hil. Ter. ends	24	24 3	11 20	8	21	24	
13	W	Ember Week	25	7 ♉ 19	morn	8	23	26	Old Cand. da.
14	T	Valentine	26	20 50	0 36	8	24	27	Miſty & cold
15	F		27	4 ♊ 38	1 49	D	25	29	
16	S		28	18 43	2 57	8	26	♓	♂ ♄ ☿
17	F	2 S. in Lent	28	0 ♋ 5	3 57	8	28	3	Windy.
18	M		2	17 42	4 44	8	29	5	
19	T		♓	2 ♌ 30	5 21	8	♈	7	♂ ☉ ♄
20	W		2	17 21	5 51	8	1	9	△ ♂ ☿
21	T		3	2 ♍ 9	☽ riſes	9	2	10	
22	F		4	16 44	7 a 7	9	4	12	Some wet.
23	S		5	0 ♎ 58	8 23	9	5	14	
24	F	3 S. in L. S. Ma.	6	14 48	9 41	9	6	16	Pr. Ad. Fr. b.
25	M		7	28 10	10 56	9	7	18	[△ ♃ ☿
26	T		8	11 ♍ 6	morn	9	9	20	□ ♂ ♀
27	W		9	23 37	0 8	9	10	22	△ ☉ ♂
28	T		10	5 ♐ 50	1 15	9	11	23	
29	F		11	17 48	2 13	9	12	25	Boiſterous.

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When Tempests beat and Rains descend,
Heav'n grant me Stella and a Friend.
Possess'd of these, I ask no more,
But pile the Fire and bar the Door:
To fordid Souls leave fordid Things;
And pity ev'n the Fate of Kings.

M D	⊙ rises h	m	⊙ sets h	m
1	7	27	4	33
2	7	25	4	35
F	7	24	4	36
4	7	22	4	38
5	7	20	4	40
6	7	19	4	41
7	7	17	4	43
8	7	15	4	45
9	7	13	4	47
F	7	11	4	49
11	7	9	4	51
12	7	8	4	52
13	7	6	4	54
14	7	4	4	56
15	7	2	4	58
16	7	0	5	0
F	6	58	5	2
18	6	56	5	4
19	6	54	5	6
20	6	52	5	8
21	6	51	5	9
22	6	49	5	11
23	6	47	5	13
F	6	45	5	15
25	6	43	5	17
26	6	41	5	19
27	6	39	5	21
28	6	37	5	23
29	6	35	5	25

OBSERVATIONS.

Speaking of the idle Amusements in which many, blessed with superior Fortune, squander away a precious Life, while they, with the Opportunities denied to Thousands, might raise their Souls to higher Objects, he says thus:

"How many Foxhunters and rural Squires are to be found in Great-Britain, who are ignorant that they have all this while lived on a Planet; that the Sun is several thousands of Times bigger than the Earth; and that there are other Worlds in our View greater and more glorious than our own. Aye, but, says another, I enjoy the World, and leave others to contemplate it.—Yes, you eat and drink, and run about upon it; that is, you enjoy it like a Brute; but to enjoy it as a rational Being, is to know it; to be sensible of its Greatness and Beauty; to be delighted with its Harmony; and by these Reflections to obtain just Sentiments of the Almighty Mind that framed it."

Now, my intelligent Reader, what thinkest thou upon this reasoning? Lay thy Hand upon thy Heart, before the cold Hand of Death hath benumbed it, and ask thyself whether this be not sound Reasoning; whether it is not worth the serious Consideration of one who is of the Kindred of the Immortals, and only born to take a transient View of these Wonders, and then flit away to the Regions of Immortality, and then behold in that extensive Scene what yet has never entered into the Heart of Mortal Man to conceive.

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M D	♄ ♓	♅ ♊
1	3	17
6	3	18
11	4	18
16	4	19
21	5	19
26	6	20

New Moon the 7th day, at midnight.
First Quarter the 15th day, at 5 in the morning.
Full Moon the 21st day, at midnight.
Last Quarter the 29th day, at 4 in the afternoon.

M. D	W D	Remarkable Days, &c.	☉ ♓	☽ longitude	☽ rises and sets	♂ ♋	♀ ♈	☿ ♓	Mut. Aspects and Weather
1	S	David	12	29 ♐ 38	3 m 2	10	13	27	Windy and
2	E	4 or Midl. S.	13	11 ♑ 24	3 42	10	15	29	Chad
3	M		14	23 13	4 15	10	16	♈	cold at the
4	T		15	5 ♒ 8	4 40	10	17	2	✱ ♅ ♀
5	W		16	17 13	5 2	10	18	3	beginning of
6	T		17	29 30	5 24	11	20	4	the month.
7	F	Perpetua	18	12 ♓ 1	☽ sets	11	21	6	□ ☉ ♅
8	S		19	24 46	6 a 43	11	22	7	Unsettled
9	E	S. in Lent	20	7 ♈ 43	7 57	11	23	8	weather for
10	M		21	20 53	9 13	11	24	9	some days.
11	T		22	4 ♉ 14	10 29	12	26	10	
12	W	Gregory	23	17 45	11 44	12	27	10	
13	T		24	1 ♊ 25	morn	12	28	11	
14	F	Cam. T. ends	25	15 15	0 55	12	29	11	
15	S	Oxf. T. ends	26	29 14	1 56	13	♉	11	
16	E	Palm Sunday	27	13 ♋ 23	2 44	13	2	12	Rain.
17	M	St. Patrick	28	27 40	3 23	13	3	♑	
18	T	Edw. K. W. S.	29	12 ♌ 2	3 56	14	4	12	✱ ♄ ♀
19	W		♈	26 27	4 23	14	5	12	Seasonable.
20	T	Maun. Thurs.	0	10 ♍ 49	4 45	14	6	11	
21	F	Good Friday	1	25 2	☽ rises	15	8	11	Benedict.
22	S		2	9 ♎ 0	7 a 22	15	9	10	
23	E	Easter Day	3	22 39	8 39	15	10	9	Temperate.
24	M	Easter Monday	4	5 ♏ 56	9 55	16	11	8	
25	T	Easter Tuesd.	5	18 40	11 4	16	12	7	Lady Day.
26	W		6	1 ♐ 22	morn	16	13	7	♂ ☉ ♅
27	T		7	13 36	0 7	17	15	6	
28	F		8	25 37	1 0	17	16	5	
29	S		9	7 ♑ 29	1 44	17	17	4	✱ ♂ ♀
30	E	Low Sunday	10	19 17	2 21	18	18	3	Wet & cold.
31	M		11	1 ♒ 8	2 56	18	19	2	

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And oft, enlighten'd by the Blaze
Of learned Lore in ancient Days,
Thence may I quaint Adages quote,
Which Tully said, or Plato wrote;
Or read the Tales of Plutarch o'er,
Of ancient Heroes, now no more.

M D	⊙ rises h	m	⊙ sets h	m
1	6	33	5	27
E	6	31	5	29
3	6	29	5	31
4	6	27	5	33
5	6	25	5	35
6	6	23	5	37
7	6	21	5	39
8	6	19	5	41
E	6	17	5	43
10	6	15	5	45
11	6	13	5	47
12	6	11	5	49
13	6	9	5	51
14	6	7	5	53
15	6	5	5	55
E	6	3	5	57
17	6	1	5	59
18	5	59	6	1
19	5	57	6	3
20	5	55	6	5
21	5	53	6	7
22	5	51	6	9
E	5	49	6	11
24	5	47	6	13
25	5	45	6	15
26	5	43	6	17
27	5	41	6	19
28	5	39	6	21
29	5	37	6	23
E	5	36	6	24
31	5	34	6	26

OBSERVATIONS.

If what has been obſerved be worth the Attention of him who knows that he is born to eternal Exiſtence, we cannot do better than to follow the ſame Author in ſome more Obſervations of the like Nature.

Speaking upon a much celebrated Firework which he had ſeen exhibited, he proceeds thus:

"After all, I could not help reflecting on the Inſignificancy of human Art, when ſet in compariſon with the Deſigns of Providence. In the Purſuit of this Thought I conſidered a Comet as a Sky-Rocket diſcharged by a Hand that is Almighty. Many of my Readers (ſays he) ſaw that in the Year 1680; and if they are not Mathematicians, will be amazed to hear that it travelled much ſwifter than a Cannon-Ball, and drew after it a Tail of Fire which was 80 Millions of Miles in Length. What an amazing Thought it is to conſider this ſtupendous Body traverſing the Immenſity of the Creation with ſuch a Rapidity, and at the ſame Time wheeling about in that Line which the Almighty had preſcribed it? that it ſhould move in ſuch an inconceivable Fury and Combuſtion, and at the ſame Time with ſuch an exact Regularity? How ſpacious muſt the Univerſe be, that gives ſuch Bodies as theſe their full Play, without ſuffering the leaſt Diſorder or Confuſion by it! What a glorious ſhew are thoſe Beings entertained with, that can look into this great Theatre of Nature, and ſee Myriads of ſuch tremendous Objects wandering through thoſe immeaſurable Depths of Ether, and running their appointed Courſes? Our Eyes may hereafter be ſtrong enough to command this magnificent Proſpect, and our Underſtandings able to find out the

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APRIL hath xxx Days.

New Moon the 6th day, at 1 in the afternoon.
First Quarter the 13th day, at noon.
Full Moon the 20th day, at noon.
Last Quarter the 28th day, at noon.

M D	♄ ♐	♃ ♊
1	6	21
6	7	21
11	7	22
16	8	23
21	8	24
26	9	25

M D	W D	Remarkable Days, &c.	☉ ♈	☽ longitude	☽ rises and sets	♂ ♋	♀ ♉	☿ ♈	Mut. Aſpects and Weather.
1	T		12	13 ♒ 6	3 a 13	18	21	2	Cool air.
2	W	Ox & Ca. T. b.	13	25 15	3 35	19	22	1	
3	T	Richard	14	7 ♓ 40	3 54	20	23	1	Rain and
4	F	St. Ambroſe	15	20 22	4 13	20	24	0	wind for
5	S	O. Lady-day	16	3 ♈ 23	4 30	20	25	♓	ſome time.
6	E	2 S. aft. Eaſter	17	16 40	☽ ſets	21	26	29	Then more
7	M		18	0 ♉ 13	8 a 22	21	28	29	moderate.
8	T		19	13 59	9 40	22	29	29	
9	W	Eaſter T. beg.	20	27 54	10 52	22	♊	☽	☌ ☉ ♃
10	T		21	11 ♊ 55	11 57	23	1	29	□ ☉ ♂
11	F		22	26 0	morn	23	2	29	
12	S		23	10 ♋ 8	0 50	23	3	♈	Windy, with
13	E	3 S. aft. Eaſter	24	24 16	1 33	24	5	♉	ſome wet.
14	M		25	8 ♌ 24	2 6	24	6	0	
15	T		26	22 29	2 34	25	7	1	
16	W		27	6 ♍ 31	2 57	25	8	1	□ ♄ ♀
17	T		28	20 26	3 19	26	9	2	Briſk air,
18	F		29	4 ♎ 11	3 39	26	10	3	and ſome
19	S	Alphage	8	17 44	4 0	26	11	3	ſhowers.
20	E	4 S. aft. Eaſter	1	1 ♏ 2	☽ riſes	27	13	4	
21	M		2	14 2	8 a 53	27	14	5	Fine plea-
22	T		3	26 45	9 58	28	15	6	ſant weather.
23	W	St. George	4	9 ♐ 11	10 56	28	16	7	
24	T		5	21 23	11 44	29	17	8	
25	F	St. Mark	6	9 ♑ 23	morn	29	18	9	Prs. Mary b.
26	S		7	15 16	0 24	♌	19	10	
27	E	Rogat. Sund.	8	27 5	0 55	0	20	11	Rain and
28	M		9	8 ♒ 57	1 22	0	21	12	☌ ☉ ♄
29	T		10	20 56	1 43	1	23	14	wind at the
30	W		11	3 ♓ 7	2 2	1	24	15	concluſion.

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Yet not a Foe to Love or Wine,
Anacreon's jocund Odes be mine;
No revel Routs at Midnight Hour
Shall e'er disturb our rural Bow'r;
And be my Stella unto me,
What Sappho (Phaon) was to thee.

M D	⊙ rises h	m	⊙ sets h	m
1	5	32	6	28
2	5	30	6	30
3	5	28	6	32
4	5	26	6	34
5	5	24	6	36
E	5	22	6	38
7	5	20	6	40
8	5	18	6	42
9	5	16	6	44
10	5	14	6	46
11	5	12	6	48
12	5	10	6	50
E	5	8	6	52
14	5	6	6	54
15	5	5	6	55
16	5	3	6	57
17	5	1	6	59
18	4	59	7	1
19	4	57	7	3
E	4	55	7	5
21	4	53	7	7
22	4	51	7	9
23	4	50	7	10
24	4	48	7	12
25	4	46	7	14
26	4	44	7	16
E	4	42	7	18
28	4	40	7	20
29	4	39	7	21
30	4	37	7	23

OBSERVATIONS.

the several Uses of these great Parts of the Universe. In the mean Time they are very proper Objects for our Imaginations to contemplate, that we may form more exalted Notions of infinite Wisdom and Power, and learn to think humbly of ourselves, and of all the Works of human Invention."

Views like these give us a true Knowledge of ourselves. Pride was never made for Man; and the Devil, who clothes us with it, laughs inwardly to see how awkwardly it becomes us; while he who upon a severe Scrutiny has found out his own Ignorance, may satisfy himself that he has taken one large Stride at least into Wisdom's School; for truly said the Poet when he wrote as follows:

"Man! Foolish Man!
Scarce know'st thou how thyself began;
Scarce hast thou Thought enough to prove thou art;
Yet steel'd with study'd boldness, thou dar'st try
To send thy doubling Reason's dazzled Eye
Thro' the mysterious Gulph of vast Immensity.
Much thou canst there discern, much there impart.
Vain Wretch! suppress thy knowing Pride;
Mortify thy leaaned Lust;
Vain are thy Thoughts, while thou thyself art dust."

This Lesson of Humiliation is so far from discouraging the diligent Searcher into the Arcana of Nature, that by depriving him of self-conceited Arrogance, it spurs him on to a laudable Pursuit of all commendable Knowledge, and enlightens the Head while it mends the Heart, and inspires it with truly rational Devotion. It is this that raises the

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New Moon the 5th day, at midnight.
First Quarter the 12th day, at 6 in the afternoon.
Full Moon the 20th day, at 1 in the morning.
Last Quarter the 28th day, at 5 in the morning.

M D	W D	Remarkable Days, &c.	☉ ♉	☽ longitude	☽ rises and sets.	♂ ♌	♀ ♊	☿ ♈	Mar. Aspect and Weather
1	F	Ascension	12	15 ♓ 35	2 m 21	2	25	16	S. Phil. &
2	S		13	28 22	2 39	2	26	18	☌ ☿ ♀
3	E	Inv. of Cross	14	11 ♈ 31	3 0	3	27	19	Expect now
4	M	Sun. af. Ascen.	15	25 2	3 21	3	28	20	some wind
5	T	Easter T. ends	16	8 ♉ 52	3 48	4	29	22	with rain.
6	W	John E. a. P. L.	17	23 1	☽ sets	4	♍	23	
7	T		18	7 ♊ 22	9 a 51	5	1	25	
8	F	Oxf. T. ends	18	21 50	10 49	5	2	26	✱ ♃ ♆
9	S		19	6 ♋ 20	11 36	6	4	28	Seasonable
10	E	Whit. Sunday	20	20 47	morn	6	5	♉	
11	M	Whit. Mond.	21	5 ♌ 7	0 12	7	6	1	
12	T	Whit. Tuesd.	22	19 18	0 42	7	7	3	☽ May day
13	W	Ember Week	23	3 ♍ 18	1 5	8	8	5	
14	T		24	17 7	1 27	8	9	6	
15	F		25	0 ♎ 42	1 48	9	10	8	△ ♄ ☿, □ ☌ ♃
16	S		26	14 3	2 7	9	11	10	✱ ♄ ♃
17	E	Trinity Sund.	27	27 11	2 29	10	12	12	✱ ☿ ♃
18	M	Q. Charl. bo.	28	10 ♏ 5	2 54	10	13	14	Windy
19	T		29	22 45	3 24	11	14	16	Dunstan.
20	W		♊	5 ♐ 12	☽ rises	11	15	18	Wet about
21	T	Oxf. T. beg.	1	17 27	9 a 41	12	16	20	this time.
22	F	Prs. Eliz. b.	2	29 32	10 22	12	17	22	Corp. Christi
23	S		3	11 ♑ 29	10 57	13	18	24	
24	E	Trin. T. beg.	4	23 20	11 24	13	19	26	
25	M	1 S. aft. Trin.	5	5 ♒ 10	11 46	14	20	28	Brisk winds
26	T	Augustin	6	17 2	morn	15	21	♊	and some
27	W	Ven. Bede	7	29 1	0 7	15	22	2	rain.
28	T		8	11 ♓ 12	0 26	16	23	4	
29	F	K. Ch. II. rest.	9	23 38	0 43	16	24	7	
30	S		10	6 ♈ 24	1 1	17	25	9	☌ ☽ ♃, □ ♄ ♆
31			11	19 34	1 21	17	26	11	

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When crown'd with Flow'rs the jocund May
To Meads invites and Gardens gay,
And ſmiling Hours invite my Fair
To walk abroad; we'll take the Air
In leafy Groves, or ſmiling Fields,
And view the Charms that Nature yields.

M D	☉ rises h	m	☉ ſets h	m
1	4	35	7	25
2	4	34	7	26
3	4	32	7	28
E	4	30	7	30
5	4	28	7	32
6	4	27	7	33
7	4	25	7	35
8	4	23	7	37
9	4	22	7	38
10	4	20	7	40
E	4	19	7	41
12	4	17	7	43
13	4	16	7	44
14	4	14	7	46
15	4	13	7	47
16	4	11	7	49
17	4	10	7	50
E	4	8	7	52
19	4	7	7	53
20	4	6	7	54
21	4	4	7	56
22	4	3	7	57
23	4	2	7	58
24	4	0	8	0
E	3	59	8	1
26	3	58	8	2
27	3	57	8	3
28	3	56	8	4
29	3	55	8	5
30	3	54	8	6
31	3	53	8	7

OBSERVATIONS.

the Mind above the low and groveling Pleaſures which Brutes enjoy in common with Men; or valuing ourſelves upon thoſe Qualifications and corporeal Advantages, in which they full often excel us; and ſets us upon improving our mental Faculties, (the only true Meaſure of a Man,) and forming our Souls to higher Enjoyments, enlarging the Underſtanding by Improvements in Knowledge, fills the Heart with a ſecret Satisfaction, fires the Mind with Raptures inconceivable, and while it attracts us to the Fountain of Wiſdom, ſtrews the Way with Flowers of Delight. To a humble enquiring Soul, true Piety likewiſe readily joins herſelf, and ever proves a welcome Gueſt; for who can look upon the Things that are made, without admiring the Wiſdom of the Maker: With Admiration enters Love; and ſo high is the Subject of Contemplation, that Adoration unavoidably follows. Then expands the Soul, ſnatching at every Branch of Intelligence, and going on from Strength to Strength, harmonizing as it improves, and loſt in raviſhing Delights in ſurveying the Operations of that Being, the very Idea of whom makes even Poetry itſelf more poetical: For, as the abovementioned ingenious Gentleman truly obſerves,

" All Kinds of Poeſy are amiable, but ſacred Poeſy ſhould be our moſt ſpecial Delight. Other Poetry leads us through flowery Meads, or beautiful Gardens; refreſhes us with cooling Breezes, or delicious Fruits; ſooths us with the Murmur of Waters, or the Melody of Birds; or elſe conveys us to the Court or Camp, dazzling our Imaginations with Crowns and Scepters, embattled Hoſts,

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New Moon the 4th day, at 9 in the morning.
First Quarter the 10th day, at midnight.
Full Moon the 18th day, at 3 in the afternoon.
Laſt Quarter the 26th day, at 7 in the afternoon.

M D	♄ ♓	♃ ♋
1	11	2
6	11	3
11	11	4
16	11	5
21	11	7
26	11	8

M D	W D	Remarkable Days, &c.	☉ ♊	☽ Longitude	☽ rises and ſets	♂ ♌	♀ ♍	☿ ♊	Mut. Aſpects and Weather
1	E	2 S. aft. Trin.	12	3 ♉ 8	1 m 45	18	27	13	Nicomede
2	M		12	7 7	2 14	18	28	15	Showers.
3	T		13	1 ♊ 29	2 52	19	29	18	✶ ♂ ☿
4	W	K.G.III.bo.	14	16 9	☽ ſets	19	♌	20	
5	T	Pr.Er.Aug. b.	15	1♋ 0	9 a 27	20	1	22	Boniface
6	F		16	15 55	10 11	21	1	24	
7	S		17	0♌45	10 43	21	2	26	Fair and
8	E	3 S. aft. Trin.	18	15 25	11 8	22	3	28	pleaſant.
9	M		19	29 49	11 31	22	4	♋	
10	T		20	13♍54	11 51	23	5	2	
11	W	St. Barnabas	21	27 39	morn	23	6	4	Tr.T. ends.
12	T		22	11 4	0 10	24	7	6	Hot weather.
13	F		23	24 11	0 32	24	7	8	Perhaps ſome
14	S		24	7♎ 0	0 56	25	8	10	△ ♄ ☿
15	E	4 S. aft. Trin.	25	19 35	1 23	26	9	12	thunder and
16	M		26	1♐57	1 57	26	10	14	rain about
17	T	St. Alban	27	14 8	2 28	27	11	16	✶ ☉ ♂
18	W		28	26 12	☽ riſes	27	11	17	this time.
19	T		29	8♑ 9	8 a 52	28	12	19	
20	F	Tr. E. KWS.	♋	20 1	9 24	28	13	21	
21	S	Longeſt day	1	1♒51	9 46	29	14	22	Wind and
22	E	5 S. aft. Trin.	2	13 42	10 7	♍	14	24	moiſt air.
23	M		3	25 35	10 25	0	15	25	
24	T	Nat. J. Bapt.	4	7♓35	10 43	1	16	27	
25	W		4	19 46	11 1	1	16	28	Fair towards
26	T		5	2♈10	11 19	2	17	♌	the end.
27	F		6	14 53	11 40	3	18	1	
28	S		7	27 58	morn	3	18	2	
29	E	6 S. aft. Trin.	8	11 ♉ 27	0 6	4	19	4	St. Pet. ♂ ☉ ♃
30	M		9	25 23	0 38	4	19	5	

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Or wand'ring o'er the lofty Mountain,
Or sitting near the bubbling Fountain,
Within some lonely humble Cell,
Where Contemplation loves to dwell,
With thee, my Stella, let me rove,
And sing of thee, and sing of Love.

M D	☉ rises h	m	☉ sets h	m
E	3	52	8	8
2	3	51	8	9
3	3	50	8	10
4	3	49	8	11
5	3	49	8	11
6	3	48	8	12
7	3	47	8	13
E	3	47	8	13
9	3	46	8	14
10	3	46	8	14
11	3	45	8	15
12	3	45	8	15
13	3	44	8	16
14	3	44	8	16
E	3	44	8	16
16	3	43	8	17
17	3	43	8	17
18	3	43	8	17
19	3	43	8	17
20	3	43	8	17
21	3	43	8	17
E	3	43	8	17
23	3	43	8	17
24	3	43	8	17
25	3	43	8	17
26	3	44	8	16
27	3	44	8	16
28	3	44	8	16
E	3	45	8	15
30	3	45	8	15

OBSERVATIONS.

or Heroes shining in burnished Steel: But sacred Numbers seem to admit us into a solemn and magnificent Temple; they encircle us with every Thing that is holy and divine; they superadd an agreeable Awe and Reverence to all those pleasing Emotions we feel from other Lays; an Awe and Reverence that exalts while it chastiseth: Its sweet Authority restrains each undue Liberty of Thought, Word and Action; it makes us think better and more nobly of ourselves, from a Consciousness of the great Presence we are in, where Saints surrounds us, and Angels are our Fellow-Worshippers."

"O let me glory, glory in my Choice!
Whom shall I sing but Him who gave me Voice?
This Theme shall last, when Homer's shall decay,
When Arts, Arms, Kings and Kingdoms melt away.
And can it, Pow'rs immortal, can it be,
That this high Province was reserv'd for me?
Whate'er the new, the rash Adventure cost,
In wide Eternity I dare be lost.
I dare launch out, and shew the Muses more
Than e'er the Learned Sisters knew before.
In narrow Limits they were wont to sing,
To teach the Swain, or celebrate the King:
I grasp the Whole, no more to Parts confin'd,
I lift my Voice, and sing to human Kind:
I sing to Men and Angels, Angels join
(While such the Theme) their sacred Hymns with mine."

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New Moon the 3d day, at 4 in the afternoon.
First Quarter the 10th day, at 8 in the morning.
Full Moon the 18th day, at 7 in the morning.
Last Quarter the 26th day, at 6 in the morning.

M D	♄ ♐	♅ ♑
1	11	9
6	11	10
11	11	11
16	10	12
21	10	13
26	10	14

M D	W D	Remarkable Days, &c.	☉ ♌	☽ Longitude	☽ rises and sets	♂ ♍	♀ ♋	☿ ♋	Mut. Aspects and Weather.
1	Γ	Camb. Com.	10	9♊46	1 m 22	5	20	6	△ ☉ ♄
2	W	Visit. B.V.M.	11	24 31	2 19	5	20	7	Windy.
3	T	Dog Days beg.	12	9♋34	☽ sets	6	21	8	
4	F	Tr. of S. Mart.	13	24 45	8 a 34	7	21	9	Cam. T. ends
5	S	O. Midsum. d	14	8♌55	9 5	7	22	10	
6	E	7 S. aft. Trin.	15	24 53	9 29	8	22	11	Fair and
7	M	Oxford Act	16	7♍33	9 51	8	22	12	pleasant.
8	T		17	23 49	10 9	9	23	13	
9	W		18	7♎38	10 31	10	23	14	△ ♄ ♅
10	T		19	21 2	10 55	10	23	14	☌ ♄ ♂
11	F		20	4♏ 2	11 21	11	23	15	
12	S	Ox. T. ends	21	16 42	11 53	11	24	16	✶ ♅ ♂
13	E	8 S. aft. Trin.	22	29 5	morn	12	24	16	
14	M		23	11♐15	0 32	13	24	17	
15	T	St. Swithin	24	23 16	1 18	13	24	17	Hot and dry
16	W		24	5♑10	2 11	14	24	17	
17	T		25	17 1	3 11	14	R	18	
18	F		26	28 51	☽ rises	15	24	18	
19	S		27	10♒42	8 a 10	16	24	18	
20	E	9 S. aft. Trin.	28	22 35	8 29	16	24	R	Margaret
21	M		29	4♓33	8 46	17	24	18	
22	T	Magdalen	♌	16 38	9 4	18	24	18	
23	W		1	28 51	9 24	18	24	17	
24	T		2	11♈11	9 43	19	23	17	Some hasty
25	F	St. James	3	23 58	10 6	19	23	17	rain about
26	S	St. Anne	4	6♉58	10 36	20	23	16	this time
27	E	10 S. aft. Trin	5	20 21	11 11	21	22	16	may be rea-
28	M		6	4♊ 8	morn	21	22	15	sonably ex-
29	T		7	18 21	0 0	22	21	14	pected.
30	W		8	2♋58	1 2	22	21	14	
31			9	17 57	2 16	23	20	13	

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There, while the Sun, with flaring Ray,
Sheds all abroad the Blaze of Day;
While Inſtinct leads the fainting Flock
Beneath the Covert of the Rock,
To yonder arching Bank we'll go,
Where Fiſhes glide, and Rivers flow.

M D	⊙ riſes h	m	⊙ ſets h	m
1	3	46	8	14
2	3	46	8	14
3	3	47	8	13
4	3	48	8	12
5	3	48	8	12
E	3	49	8	11
7	3	50	8	10
8	3	50	8	10
9	3	51	8	9
10	3	52	8	8
11	3	53	8	7
12	3	54	8	6
E	3	55	8	5
14	3	56	8	4
15	3	57	8	3
16	3	58	8	2
17	4	0	8	0
18	4	1	7	59
19	4	2	7	58
E	4	3	7	57
21	4	5	7	55
22	4	6	7	54
23	4	7	7	53
24	4	9	7	51
25	4	10	7	50
26	4	11	7	49
E	4	13	7	47
28	4	14	7	46
29	4	16	7	44
30	4	17	7	43
31	4	18	7	41

OBSERVATIONS.

In the ſubſequent Part of this Diſcourſe let us view the wonderful Hand of God in ſome of his created Beings; and that Inſtruction and Amuſement may go Hand in Hand, as in our laſt our Contemplations were upon a Race of Beings known to every one, our preſent Subject ſhall be upon a Creature known to but few; I mean the Crocodile.

" Obſerve the Crocodile's amazing Length,
His Form affrighting, and his mighty Strength,
With Scales of Braſs encompaſs'd all around,
From him the rattling Javelins rebound,
Broken their Points, but guiltleſs of a Wound.
Like op'ning Gates his threat'ning Jaws divide,
With Rows of Teeth like Spears on either Side.
In Ambuſh on the River's Bank he lies,
Thirſting for Blood; around he rolls his Eyes,
With Hunger pain'd:—What can his Fury ſtay,
Dreadful he rouſes up, and ruſhes on the Prey.
While yet an Egg, and cover'd o'er with Sand,
His Parents left him helpleſs on the Strand,
What Pow'r, but God's alone, could give him Birth,
And raiſe the Monſter, crawling from the Earth.

This aſtoniſhing Creature is amphibious, and lives both by land Water, and hatched from an Egg, ſaid not to be much bigger than that of a Turkey, increaſes to the enormous Size of ten or twelve Yards in Length; but no certain Standard can be given, if it be true, as is reported, that while other Creatures have a certain Period to their Growth, this, on the contrary, ſtill continues to grow

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AUGUST hath xxxi Days.

New Moon the 1st day, at 11 at night.
First Quarter the 8th day, at 7 in the afternoon.
Full Moon the 16th day, at 10 at night.
Last Quarter the 24th day, at 4 in the afternoon.
New Moon the 31st day, at 7 in the morning.

M D	♄ ♓	♅ ♋
1	10	16
6	9	17
11	9	18
16	9	19
21	8	20
26	8	21

M D	W D	Remarkable Days, &c.	☉ ☌	☽ Longitude	☽ rises and sets	♂ ♍	♀ ☌	☿ ☌	Mut. Aspects and Weather.
1	F	Lam. day	10	3♌ 9	☽ sets 7 a 28	24	20	12	
2	S		11	18 25		24	19	11	☌ ☉ ☿
3	E	11 S.aft.Trin.	12	3♍39	7 51	25	19	10	Mist and
4	M		13	18 24	8 13	26	18	10	rain about
5	T		14	2♎50	8 36	26	18	9	this time.
6	W	Transfigurat.	15	16 47	9 0	27	17	8	
7	T	Prs. Amelia b.	16	0♏15	9 25	27	16	8	Na. of Jesus.
8	F		16	13 16	9 53	28	16	7	☌ ☉ ♀
9	S		17	25 53	10 32	29	15	7	
10	E	12 S.aft.Trin.	18	8♐12	11 16	29	15	6	St. Lawrence
11	M	Prs. Brunf. b.	19	20 16	morn	♎	14	6	Dog-da end.
12	T	Pr. Wales b.	20	2♑12	0 8	1	13	D	☌ ☉. Lam. day.
13	W		21	14 2	1 6	1	13	6	
14	T		22	25 51	2 8	2	12	6	Seasonable.
15	F	Assumption	23	7♒42	3 13	2	12	7	Rain, per-
16	S	D. of York b.	24	19 36	rites	3	11	7	haps thun-
17	E	13 S.aft. Trin.	25	1♓36	6 a 55	4	11	7	der, and the
18	M		26	13 42	7 14	4	10	8	weather va-
19	T		27	25 56	7 34	5	10	9	riable.
20	W		28	8♈19	7 53	6	9	10	☌ ♀ ☿
21	T	Pr. W. H. b.	29	20 52	8 16	6	9	11	Flying
22	F		♍	3♉38	8 43	7	9	12	showers.
23	S		1	16 39	9 15	8	9	13	
24	E	14 S.aft.Trin.	2	29 58	9 59	8	8	14	St. Bartho.
25	M		3	13♊37	10 52	9	8	16	
26	T		4	27 38	11 58	10	8	17	Seasonable
27	W		5	12♋ 1	morn	10	8	19	to the end.
28	T	St. Auguſtine	6	26 44	1 16	11	8	20	
29	F	Bch. St. J. Bap.	7	11♌42	2 39	11	D	22	
30	S		8	26 47	4 6	12	8	♑	☌ ☉ ♄
31	E	15 S.aft.Trin.	9	11♍49	☽ sets	13	8	26	

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And when th' infectious Syrian Star,
With sultry Heat barks from afar;
True as the Needle to its North,
I'll lead my lovely Stella forth,
Where cooling Grots, and purling Streams,
Shall shade her from his fiery Beams.

M D	☉ rises h	m	☉ sets h	m
1	4	20	7	40
2	4	22	7	38
E	4	24	7	36
4	4	25	7	35
5	4	27	7	33
6	4	28	7	32
7	4	30	7	30
8	4	32	7	28
9	4	34	7	26
E	4	35	7	25
11	4	37	7	23
12	4	39	7	21
13	4	41	7	19
14	4	42	7	18
15	4	44	7	16
16	4	46	7	14
E	4	48	7	12
18	4	50	7	10
19	4	51	7	9
20	4	53	7	7
21	4	55	7	5
22	4	57	7	3
23	4	59	7	1
E	5	1	6	59
25	5	2	6	58
26	5	4	6	56
27	5	6	6	54
28	5	8	6	52
29	5	10	6	50
30	5	12	6	48
E	5	14	6	46

OBSERVATIONS.

bigger to the End of its Life, which is said to last not less than a hundred Years.

Its Head is flat, both above and below; his Jaws, when extended, are wide enough to swallow a Man. He has a sharp long Snout, full of Teeth, but no Tongue; the Eyes are very large, and of a darkish Colour; the Body all of a Bigness, covered on the Back with high Scales, resembling the Heads of broad Nails, of a Colour inclining to green, and at the same Time so hard, that a Spear has no Effect upon them. The Tail is long, and covered with Scales in the same Manner as the Back; its Belly is white, and pretty tender, being the only Place where it can with Ease be wounded. It has four short Legs, with five Claws on its fore Feet, and four on its hinder ones.—It is reported, that, different from all other Species of Beings, (except the Hippopotamus,) it moves only the upper Jaw in eating. Its Flesh is insipid, but not poisonous. It is a very ravenous, and at the same time a very subtle Creature, hiding itself in the Sands, and behind the projecting Banks of Rivers, to watch the Beasts coming to drink; and when any Creature has the Ill Fortune to fall in its Way, and comes within its Reach, it then rushes on it with amazing Rapidity, drags it into the Water, and holds it down till it is strangled.

The River Nile is said to abound with these devouring Creatures; and that the only Way to escape their Pursuit, is by flying in circular Lines; for their Bodies being of such a vast Length, requires some Time to turn in, during which the

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M D	♄ ♐	♅ ♎
1	7	22
6	7	23
11	7	24
16	6	24
21	6	25
26	6	26

First Quarter the 7th day, at 9 in the morning.
Full Moon the 15th day, at 1 in the afternoon.
Last Quarter the 22d day, at midnight.
New Moon the 29th day, at 4 in the afternoon.

M D	W D	Remarkable Days, &c.	☉ ♍	☽ Longitude	☽ rises and sets	♂ ♎	♀ ♌	☿ ♌	Mut. Aspects and Weather
1	M	Giles	10	26 ♍ 39	6 a 44	13	8	27	Wet at the
2	T	Lond.b.1666	11	11 ♎ 7	7 8	14	8	29	beginning.
3	W		12	25 8	7 33	15	8	♍	
4	T		13	8 ♏ 40	8 3	15	8	3	
5	F		14	21 45	8 38	16	9	5	
6	S		14	4 ♐ 24	9 20	17	9	7	☌ ♄ ☿
7	E	16 S.aft.Trin.	15	16 43	10 9	17	9	9	Snurchus.
8	M	Nativ. V. M.	16	28 48	11 5	18	10	11	
9	T		17	10 ♑ 42	morn	18	10	13	Temperate.
10	W		18	22 32	0 6	19	10	14	
11	T		19	4 ♒ 22	1 11	20	11	16	
12	F		20	16 15	2 17	21	11	18	Winds.
13	S		21	28 15	3 23	21	12	20	
14	E	17 S.aft.Trin.	22	10 ♓ 23	4 31	22	12	22	H. Cr. ☍ ☉ ☿
15	M		23	22 41	☽ rises	23	13	24	✶ ♅ ☿
16	T		24	5 ♈ 9	6 a 9	23	13	26	✶ ☉ ♅
17	W	Ember Week	25	17 47	6 31	24	14	27	Lambert
18	T		26	0 ♉ 36	6 58	25	14	29	□ ♅ ♂
19	F		27	13 36	7 28	25	15	♎	Rain with
20	S		28	26 4	8 8	26	16	3	winds.
21	E	18 S.aft.Trin.	29	10 ♊ 13	8 57	27	16	4	St. Matth.
22	M	K. G. 3. crow.	♎	23 52	9 58	27	17	6	
23	T		1	7 ♋ 46	11 9	28	18	8	More tem-
24	W		2	21 56	morn	29	18	10	perate, but
25	T		3	6 ♌ 21	0 28	29	19	11	concludes
26	F	St. Cyprian	4	20 57	1 50	♏	20	13	with wind
27	S		5	5 ♍ 39	3 13	1	21	15	and rain.
28	E	19 S.aft.Trin.	6	20 20	4 36	1	21	16	
29	M	St. Michael.	7	4 ♎ 53	☽ set	2	22	18	Prs.Ch.A,M.b.
30	T	St. Jerome	8	19 10	5 a 43	3	23	19	

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Then when Pomona ſpreads the Board,
And bids againſt the Winter hoard,
And yellow Autumn gives the Sign
To bind the Sheaves, and bleed the Vine;
Joyful the Proſpect we will view,
And joyfully the Taſk purſue.

M D	⊙ riſes h	m	⊙ ſets h	m
1	5	16	6	44
2	5	18	6	42
3	5	20	6	40
4	5	22	6	38
5	5	23	6	37
6	5	25	6	35
E	5	27	6	33
8	5	29	6	31
9	5	31	6	29
10	5	33	6	27
11	5	35	6	25
12	5	37	6	23
13	5	39	6	21
E	5	41	6	19
15	5	43	6	17
16	5	45	6	15
17	5	47	6	13
18	5	49	6	11
19	5	51	6	9
20	5	53	6	7
E	5	55	6	5
22	5	57	6	3
23	5	59	6	1
24	6	1	5	59
25	6	3	5	57
26	6	4	5	56
27	6	6	5	54
E	6	8	5	52
29	6	10	5	50
30	6	12	5	48

OBSERVATIONS.

Purſued gains Ground; but in a direct Line they run with an amazing Swiftneſs.

Don Ulloa, ſpeaking of the River Guyaquil, ſays, "The Crocodiles are moſt deſtructive Enemies to the Fiſh which that River produces; that they chiefly feed upon them, and catch them with as much Artifice as the moſt able Fiſherman. Eight or ten of them combine together, and place themſelves about the Mouth of a River or Canal, ſo that no Fiſh can paſs without becoming their Prey. The Fiſhes are, however, obliged to make the Attempt; for while theſe abovementioned are watching at the Mouth of the River, others are employed in driving the Fiſh before them down the Stream; who in conſequence become an inevitable Prey to either one or the other. When they are deſtitute of Fiſh, and preſſed with Hunger, they then ſeek the Land, and preſſent the Plains, which, however, border upon ſome River or Brook. Here Calves or young Colts are not exempt from their Fury; and after having once taſted Fleſh, they retain ſuch a Reliſh for it, as not to return to their fiſhy Aliment, unleſs preſſed by Neceſſity. They now hunt after other Animals, nor even let Men eſcape them. They ſally forth when it is dark, and ſurprize their Prey under the Covert of the Night."

Ancient Stories tell us, that when they have devoured their Prey all but the Head, they ſhed Tears over it; but afterwards devour that alſo. Hence

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Firſt Quarter the 7th day, at 3 in the morning.
Full Moon the 15th day, at 4 in the morning.
Laſt Quarter the 22d day, at 7 in the morning.
New Moon the 29th day, at 3 in the morning.

M D	♄ ♐	♅ ♋
1	5	27
6	5	27
11	5	28
16	5	28
21	5	29
26	4	29

M D	W D	Remarkable Days, &c.	☉ ♎	☽ Longitude	☽ rises and ſets	♂ ♍	♀ ♌	☿ ♎	Mut. Aſpects and Weather
1	W	Remigius	9	3♍ 4	6 a 9	4	24	21	Cloudy.
2	T		10	16 35	6 45	4	25	23	
3	F		11	29 40	7 25	5	25	24	△ ♄ ♂
4	S		12	12♐ 21	8 11	6	26	26	
5	E	20 S. aſt. Trin.	13	24 43	9 5	6	27	27	□ ♅ ☿, ✶ ♀ ☿
6	M	Faith.	14	6♑ 49	10 5	7	28	29	
7	T		15	18 45	11 8	8	29	♍	Wind and
8	W		16	0♒ 36	morn	8	♍	2	rain.
9	T	St. Denys.	17	12 27	0 12	9	1	3	
10	F	Ox. & Ca. T. b.	18	24 23	1 19	10	2	5	O. Mich. Da.
11	S		19	6♓ 28	2 26	10	3	6	Moderate.
12	E	21 S. aſt. Tr.	20	18 44	3 34	11	4	8	
13	M	Tr. K. Ed. Co	21	1♈ 13	4 42	12	5	9	
14	T		22	13 56	5 42	12	5	11	☌ ♄ ♀
15	W		23	26 53	☽ rises	13	6	12	
16	T		24	10♉ 3	5 a 35	14	7	13	Windy, but
17	F	Etheldred	25	23 26	6 14	15	8	15	ſeaſonable.
18	S	St. Luke	26	6♊ 59	6 59	15	9	16	☌ ♂ ☿
19	E	22 S. aſt. Tr.	27	20 42	7 59	16	10	18	
20	M		28	4♋ 33	8 8	17	11	19	
21	T		29	18 33	10 21	17	12	20	
22	W		♍	2♌ 40	11 41	18	13	22	□ ☉ ♅
23	T		1	16 52	morn	19	14	23	
24	F		2	1♍ 8	1 2	20	15	24	Cold & wet.
25	S	K. Geo. III. ac.	3	15 25	2 22	20	17	25	Criſpin.
26	E	23 S. aſt. Tr.	4	29 38	3 42	21	18	27	K. G. III. pr.
27	M		5	13♎ 43	5 2	22	19	28	
28	T	St. Sim. & Jude	6	27 36	6 21	22	20	29	△ ☉ ♄
29	W		7	11♍ 12	☽ ſets	23	21	♐	△ ♄ ☿
30	T		8	24 30	5 a 33	24	22	1	Temperate.
31	F		9	7♐ 28	6 7	24	23	2	

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And when that Sol to Southern skies
Descending fast, does later rise;
And Swains do to their Cots retire,
Again we'll raise the cheerful Fire;
Contented in our blest Retreat,
While Rains descend and Tempests beat.

M D	☉ rise: h	m	☉ set: h	m
1	6	14	5	46
2	6	16	5	44
3	6	18	5	42
4	6	20	5	40
E	6	22	5	38
6	6	24	5	36
7	6	26	5	34
8	6	28	5	32
9	6	30	5	30
10	6	32	5	28
11	6	34	5	26
E	6	36	5	24
13	6	38	5	22
14	6	40	5	20
15	6	42	5	18
16	6	44	5	16
17	6	45	5	15
18	6	47	5	13
E	6	49	5	11
20	6	51	5	9
21	6	53	5	7
22	6	55	5	5
23	6	57	5	3
24	6	59	5	1
25	7	1	4	59
F	7	3	4	57
27	7	4	4	56
28	7	6	4	54
29	7	8	4	52
30	7	10	4	50
31	7	12	4	48

OBSERVATIONS.

Hence comes the Adage; when People mimic Sorrow, though the Heart is not sad, we exclaim,— "They shed Crocodile's Tears." This, however must be looked upon as fabulous.

As Alligators are oviparous Animals, and the Female lays a hundred Eggs in the Space of a Day or two, their Multitudes would in a short Time depopulate the Places they frequent of every other Inhabitant, was it not for a Restraint interposed by an all-wise Providence, by rendering them in their Turn tributary to other Species. When the Female wants to lay, she comes on Shore, and deposits her Eggs in a Hole which she digs for that Purpose, near the Borders of the River; she then covers them with Sand, and has the Precaution to roll herself over the Place, and even the Parts adjacent, in order the more effectually to conceal the Spot wherein she has deposited them, and disconcert the Stratagems of her Enemies, who diligently search after them.

Having thus made all the Provision she possibly can for their Security, she returns to the Water and leaves them to quicken, until the Time that Nature has taught her it is necessary to hatch them. She then returns with the Male, removes the Sand, and breaks the Shells. The young ones immediately come forth, and they are so secured from Accidents, that scarce a single Egg shall be lost in the whole Brood. As soon as they are hatched, the Mother takes them upon her Back

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M D	♄ ♑	♃ ♐
1	4	30
6	D	30
11	4	30
16	4	30
21	4	30
26	5	30

First Quarter the 5th day, at midnight.
Full Moon the 13th day, at 6 in the evening.
Last Quarter the 20th day, at 2 in the afternoon.
New Moon the 27th day, at 6 in the evening.

M D	W D	Remarkable Days, &c.	☉ ♏	D Longitude	D rises and sets	♂ ♏	♀ ♏	☿ ♐	Mut. Aspects and Weather
1	S	All Saints	10	20 ♐ 7	6 a 59	25	24	3	Seasonable.
2	E	24 S. aft Trin.	11	2♑28	7 58	26	25	4	Pr. Ed. L.
3	M	Fra. Sophia b.	12	14 36	8 59	27	26	5	□ ♄ ☿
4	T		13	26 33	10 3	27	27	6	☌ ♂ ♀
5	W	Powder Plot	14	8♒26	11 9	28	28	6	
6	T	Leonard.	15	20 17	morn	29	29	7	Mic. Ter. ♄
7	F	D. of Cum. b.	16	2♓14	0 13	♐	♐	7	△♃♂, ✶♃♀
8	S	Prs Aug. S. b.	17	14 19	1 18	0	2	8	
9	E	25 S. aft. Trin.	18	26 38	2 27	1	3	8	Storms, cold
10	M	Ld Mayor's d.	19	9♈13	3 36	♑	4	8	and turbu-
11	T	St. Martin.	20	22 6	4 47	2	5	♑	lent now
12	W		21	5♉19	5 59	3	6	8	about.
13	T	Britius	22	18 50	D rises	4	7	8	□ ♄ ☌, ✶ ♀ ☿
14	F		23	2♊38	4 a 55	5	8	7	More tem-
15	S	Machutus	24	16 39	5 51	5	9	7	☌ ♂ ☿
16	E	26 S. aft. Trin.	25	0♋50	6 56	6	11	6	□ ♄ ☿
17	M	Hugh	26	15 6	8 7	7	12	5	perate to the
18	T		27	29 25	9 30	8	13	4	close of the
19	W		28	13♌42	10 49	8	14	2	month, when
20	T	Edmund	29	17 55	morn	9	15	1	△ ☉ ♃
21	F		♐	12♍2	0 9	10	16	♍	☌ ☉ ☿
22	S	Cecilia	1	26 0	1 26	10	18	28	O. Martin. d.
23	E	27 S. aft Trin.	2	9♎48	2 38	11	19	27	St. Clement.
24	M		3	23 25	4 1	12	20	26	
25	T	D. of Glou. b.	4	6♍50	5 15	13	21	25	Cather. □ ☉ ♄
26	W		5	20 1	6 28	13	22	24	
27	T		6	2 ♐ 58	D sets	14	23	23	expect winds.
28	F	Mic. Ter end.	7	15 41	4 43	15	25	23	
29	S		8	28 10	5 38	16	26	22	
30	E	Advent S.	9	10♑26	6 39	16	27	D	St. Andrew.

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Sweet Innocence, be thou my Guide,
And Stella ſtill attend my Side;
Till Summer, Spring, and Autumn's gone,
And Life's cold Winter haſtens on;
Then fearleſs, and without Diſtruſt,
We'll cloſe our Eyes and ſleep in Duſt.

M D	☉ riſes h	m	☉ ſets h	m
1	7	14	4	46
E	7	15	4	45
3	7	17	4	43
4	7	19	4	41
5	7	20	4	39
6	7	22	4	38
7	7	24	4	36
8	7	26	4	34
E	7	27	4	33
10	7	29	4	31
11	7	31	4	29
12	7	32	4	28
13	7	34	4	26
14	7	36	4	24
15	7	37	4	23
E	7	39	4	21
17	7	40	4	20
18	7	42	4	18
19	7	43	4	17
20	7	44	4	16
21	7	46	4	14
22	7	47	4	13
E	7	48	4	12
24	7	50	4	10
25	7	51	4	9
26	7	52	4	8
27	7	53	4	7
28	7	54	4	6
29	7	56	4	4
E	7	57	4	3

OBSERVATIONS.

and about her Neck, and makes directly to the Water with her new Race: but in the mean Time the Gallinazo (who is always upon the Watch) carries off ſome of them, and the Male alſo devours as many as he can catch. The Female herſelf alſo deſtroys thoſe that are ſeparated from her, or are not able to ſwim; ſo that there ſhall ſcarce five or ſix ſurvive out of ſo numerous a Brood.

The Gallinazos are no leſs active and cunning in deſtroying the Race of Crocodiles, than the latter are in catching Fiſh and other Animals. They are particularly fond of their Eggs, and employ an amazing Dexterity to ſeize them. At the ſeaſon that the Female depoſits them by the Side of the River, they ſtand Centinel upon ſome adjacent Tree, hiding themſelves among the Branches and Leaves, ſo as not to be ſeen. They permit her to lay her Eggs without Moleſtation, neither do they ſo much as interrupt her Precautions to conceal her Treaſure; but the Moment ſhe returns, they pitch upon her Neſt, and by Means of their Bills, Claws and Wings, uncover th Eggs, and inſtantly devour them.

The ingenious Author of a ſmall Treatiſe, called *A Philoſophical Survey of the Animal Creation*, has therein the following Obſervations, with which I ſhall conclude this Year's Diſcourſe.

"Let

First Quarter the 5th day, at 9 at night.
Full Moon the 13th day, at 6 in the morning.
Last Quarter the 19th day, at 10 at night.
New Moon the 27th day, at noon.

M D	☽ ☌	♄ ♑
1	5	30
6	5	29
11	5	29
16	6	28
21	6	28
26	6	27

M D	W D	Remarkable Days, &c.	☉ ♐	☽ longitude	☽ rises and sets	♂ ♐	♀ ♑	☿ ♏	Mut. Aspects and Weather
1	M		10	22 ♑ 31	7 a 45	17	28	22	Wind with
2	T		11	4 ♒ 29	8 49	18	29	22	□ ♃ ☿
3	W		12	16 21	9 53	19	♏	23	snow or rain.
4	T		13	28 12	10 58	19	2	23	
5	F		14	10 ♓ 7	morn	20	3	23	
6	S	Nicholas	15	22 10	0 3	21	4	24	Cold and
7	E	2 S. in Adv.	16	4 ♈ 27	1 9	22	5	24	△ ♄ ☿
8	M	Concep. V. M.	17	17 0	2 18	22	6	25	sharp air.
9	T		18	29 55	3 27	23	8	26	
10	W		19	13 ♉ 18	4 40	24	9	27	△ ♃ ☌
11	T		20	26 55	5 53	25	10	28	
12	F		21	11 ♊ 1	7 2	25	11	29	Stormy,
13	S	Lucy	22	25 26	☽ rises	26	12	♐	about this
14	E	3 S. in Adv.	23	10 ♋ 6	5 a 41	27	14	2	time.
15	M		24	24 53	7 2	28	15	3	
16	T	O Sapientia	25	9 ♌ 40	8 23	28	16	4	Cam. T. ends
17	W	Ember Week	26	24 19	9 47	29	17	6	Oxf. T. ends.
18	T		27	8 ♍ 46	11 6	♑	18	7	
19	F		28	22 57	morn	1	20	8	More tem-
20	S		29	6 ♎ 50	0 23	1	21	10	perate.
21	E	4 S. in Adv.	♑	20 24	1 38	2	22	11	St. Th.
22	M		1	3 ♍ 41	2 53	3	23	12	
23	T		2	16 43	4 5	4	24	14	
24	W		3	29 30	5 12	4	26	15	Cloudy and
25	T	Christmas D.	5	12 ♐ 6	6 16	5	27	17	△ ♃ ☿
26	F	St. Stephen	6	24 30	7 7	6	28	18	✱ ♄ ♂
27	S	St. John	7	6 ♑ 46	☽ sets	7	29	20	✱ ☉ ♄, ☍ ☉ ♂
28	E	1 S aft. Chr.	8	18 53	5 a 16	7	♑	21	Innocents.
29	M		9	0 ♒ 53	6 21	8	2	23	dark at the
30	T		10	12 48	7 27	9	3	24	end.
31	W	Silvester	11	24 40	8 32	10	4	26	

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In learned Eaſe, and homely Gray,
Thus let me paſs my Days away.
And when Life's buſy Scene is o'er,
And even Stella charms no more;
Reſign'd we'll lay us down, to riſe
To brighter Worlds, and purer Skies.

M D	⊙ riſes h	m	⊙ ſets h	m
1	7	58	4	2
2	7	59	4	1
3	8	0	4	0
4	8	0	4	0
5	8	1	3	59
6	8	2	3	58
E	8	3	3	57
8	8	4	3	56
9	8	4	3	56
10	8	5	3	55
11	8	5	3	55
12	8	6	3	54
13	8	6	3	54
E	8	7	3	53
15	8	7	3	53
16	8	7	3	53
17	8	8	3	52
18	8	8	3	52
19	8	8	3	52
20	8	8	3	52
E	8	8	3	52
22	8	8	3	52
23	8	8	3	52
24	8	8	3	52
25	8	7	3	53
26	8	7	3	53
27	8	7	3	53
E	8	6	3	54
29	8	6	3	54
30	8	5	3	55
31	8	5	3	55

OBSERVATIONS.

"Let us admire (ſays he) the Wiſdom of Providence, which has given to the male Crocodiles this Propenſity to devour the young, of which they are the Parents; and to the Gallinazos ſuch a Deſire after the Eggs of the Female. Without this, neither could the Waters nor the Plains be able to contain the Number of this pernicious and deſtructive Species, which would be produced from ſuch Quantities of Eggs, ſince, notwithſtanding the ſurpriſing Havock made both by the one and the other, the Number that ſtill remains is inconceivable."

Thus we ſee that Nature has her Reaſons for every Thing; more eſpecially for the Place ſhe has allotted to each Species in the Animal Syſtem. There are none but have their particular Utility, either by affording Nouriſhment, or ſerving as a Barrier to ſome other Species. Their Aſſemblage forms a complete Whole, which ſupports itſelf by the reciprocal Balance of its Parts.—By extirpating one, you hazard the Intereſt of all; ſeeing thoſe that appear to us the moſt uſeleſs, may, without our knowing it, ſerve as Obſtacles to the injurious Increaſe of ſome pernicious Race. But my Limits are contracted: I have here only Room to obſerve, that the more we look into the grand Theatre of Nature, the more we are aſtoniſhed at the wonderful Works of the Almighty. Thus Study leads us to Amazement; Amazement to Devotion; and Devotion leads us to Heaven.

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Of the ECLIPSES in the preſent Year 1788.

"Give me the Way of wand'ring Stars to know,
The Depths of Heav'n above and Earth below:
Teach me the various Labours of the Moon,
And whence proceed th' Eclipſes of the Sun."

In our laſt Annual Performance we gave a Liſt of Ancient Eclipſes, and of the Chances and Changes which happened thereupon to thoſe who were then walking down, through the Mazes of this tranſitory Life, to the Vale of Death. Let thoſe who read the Hiſtorical Page reflect, that what has been will be, and that there is no new Thing under the Sun. Thus ſaid the wiſeſt of the Sons of Men; and let him who thinks himſelf wiſer than Solomon, in his great Wiſdom contradict the Aſſertion. I know the preſent Age looks upon all Prediction as a Fallacy, and a Chriſtian Fool and a Chriſtian Aſtrologer are with them ſynonymous Terms. The Faſhion of Mankind ſome Centuries ago, was to regard the Admonition of the Celeſtial Wanderers with a ſtrict Awe and Veneration; but the Faſhion is now altered, and every Thing of this Kind is now looked upon as bordering upon egregious Folly, and enthuſiaſtic Stupidity; however, be it remembered, that "the Faſhion of this World paſſeth away;" and if ſo be that the Obſervation that what has been will be, and there is no new Thing under the Sun be a true one, then it may in all Probability come to paſs, that ſome future Day, in the ſame Light that we now look upon our Anceſtors, our wiſer Succeſſors may look upon us; and the Weathercock Faſhion having veered about to the oppoſite Point from which it ſtands now, while they look with Aſtoniſhment at the Wiſdom of our Forefathers, they ſhall laugh at the Stupidity of the Fools of the eighteenth Century. We wiſh, however, to put no one out of his Way; nor intrude any Opinion of ours as infallible. In ſhort, although this Production was not deſigned to be loaded with Predictions and Aſtrological Judgments, but chiefly for the Improvement of young Minds, for their Inſtruction and Amuſement; yet thoſe of our kind Cuſtomers who ſtill adhere to the Opinions of the Ancients, have we think a fair Claim to a Leaf or two upon the Subject, which thoſe who diſregard them may turn over unread.

To return therefore to my Subject, there will in the preſent Year be only Two Eclipſes, and but one of them viſible in this our Iſle, and this will happen on Wedneſday the fourth Day of June, in Manner following:

The

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The Sun eclipsed June 4th in the Morning:

Beginning	7 Hours	24 Min.
Middle	8	11
End	9	0

Digits eclipsed 3° 59′ on the Sun's Southern Limb.
The Moon makes her first Impression on the Solar Disk at 96° from the Sun's Vertex on the right Hand.

The Second will be likewise an Eclipse of the Sun, but to us invisible. This will happen on the twenty-seventh Day of November, at 6h 10′ P. M. in Long. 6° 16′; Moon's Lat. 9′ S. The Sun will be centrally eclipsed on the Meridian at 6h 13 m. in Long. 93°½ West, and Latitude 30½ South.——I shall only observe, that an Eclipse of the Sun, in the Decanade in which the first of these Eclipses happens, denotes Piracies, Murders, and Thefts, if the Words of Cardan are to be credited: But of this let those who scrutinize into the Transactions of the present Year determine.

I desist from further Observations in the Astrological Line upon the Portents of this Eclipse, because, if the above Remark be true, there are Portents enough for one little Eclipse; and if false, one Falsehood in a Page is enough. In Cases of this Nature it is much easier to say too much than too little; but much wiser to say too little than too much. I make no Remarks upon the last, because that it is the general received Opinion of all Professors of this Art, that where they are not visible, they have no perceptible Effect. The best Advice I can give my kind Readers in this Case is this: If they are Advocates for Astrology, read with Caution; if not, read with Candour. Many Volumes have been written in Vindication of the Astrological Art, and perhaps as many more to disprove it. It is a Subject which, let me tell you, gentle Reader, has employed more learned Heads, and much better Pens than either yours or mine, on both Sides the Question. Let us not then be stupidly incredulous, nor yet so very anxious to see into Futurity, as to say with Macbeth,

"If you can look into the Seeds of Time,
And see which Grain will grow, and which will not:
I conjure you, by that which you profess,
To answer me.
Tho' you untie the Winds, and let them fight
Against the Churches: tho' the yesty Waves
Confound and swallow Navigation up:
Tho' bladed Corn be lodg'd, and Trees blown down;
Tho' Castles topple on their Warders' Heads:
Tho' Palaces and Pyramids do slope
Their Heads to their Foundations:
Ev'n till Destruction sickens, answer me."

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We will now (God willing) make ſome ſhort Obſervation upon the Four Quarters; and as Winter begins the Year, begin we likewiſe with

The WINTER QUARTER.

This Quarter commences on the 21ſt Day of December, 1787, about Nine in the Evening, when Sol enters the firſt Scruple of Capricorn, making with us the ſhorteſt Day and the longeſt Night, when you poſſibly may, as the Poet deſcribes it,

"Behold the Mountains hoary Height,
Made higher with new Mounts of Snow;
Again behold the Winter's Weight
Oppreſs the lab'ring Woods below;
And Streams, with icy Fetters bound,
Benumb'd and cramp'd to ſolid Ground."

The Scheme of the Heavens at the Sun's Ingreſs into Capricorn, is as follows, 8 Deg. of ♉ culminate, and 22 Deg. fere of ♌ aſcend. The following celeſtial Wanderers, viz. ☉, ☿, ♀ and ♄, are all ſub terra. Jupiter is retrograde in ♊, as is alſo Mars in ♏. Moreover, ☉ has juſt parted from an ☌ to ♅, and ♂ is preparing for an ☌ to ♀. *Oppoſitio eſt Aſpectus ſignificans Contentiones, Malitiam & Diſcordiam,* ſay the ancient Writers upon Aſtrology, which, if true, ſeems to denote that there is Work enough of the malignant Kind for a buſy World to buſtle through. ♄ in ♒ promiſes little Comfort to old Age, and for the predominant Diſeaſes of this Quarter, I ſuppoſe them to be Gripings of the Internals, Convulſions, eſpecially in Children, the Gout, Sore Throats, Dropſies, Cramps, Dry Coughs, Phthiſicks, and other Diſorders ariſing from putrefied Blood and Choler. But as we daily ſee the Mutations and Viciſſitudes of all ſublunary Things, we may with Aſſurance conclude, that to put any Confidence in Health, or place any Dependence on the Continuation of Life, is folly in Youth, but in Age it is Madneſs. Having therefore in this World no continued City, let us in Time wiſely prepare for a Habitation not made with Hands, in the Regions of eternal Bliſs.

"Life is but Air,
That yields a paſſage to the whiſtling Sword,
And cloſes when 'tis gone." DRYD.

"Nor love thy Life, nor hate; but while thou liv'ſt,
Live well; how long, how ſhort, ſubmit to Heav'n."
MILT.

Of

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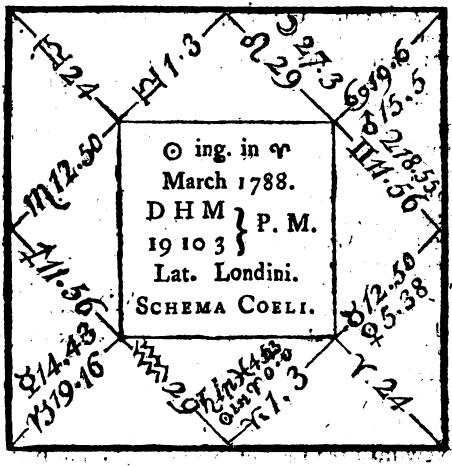
Of the VERNAL or SPRING QUARTER.

This Quarter commences March 19th, at 3 Min. paſt 10 in the Evening, making once more equal Day and Night.

" When firſt the tender Blades of Graſs appear,
And Buds, that yet the Blaſts of Eurus fear,
Stand at the Door of Life, and doubt to clothe the Year;
Till gentle Heat and ſoft repeated Rains,
Make the green Blood to dance within their Veins:
Then, at their Call embolden'd, out they come,
And ſwell the Gems, and burſt the narrow Room:
Broader and broader yet their Blooms diſplay,
Salute the welcome Sun, and entertain the Day.
Then from their breathing Souls their Sweets repair
To ſcent the Skies, and purge th' unwholeſome Air.
Joy ſpreads the Heart, and with a gen'ral Song,
Spring iſſues out, and leads the jolly Months along."

The Scheme of the Heavens at the Ingreſs of Sol into Aries is as follows:



Aſtrologers will here obſerve 12° 50′ of ♏ to aſcend, and 29° of ♌ to culminate. ♄ in ♓ beſpeaks but cold Comfort, eſpecially to benumbed Age. The Aſpects of moſt Conſequence

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sequence are of the malignant Kind in general; may their Effects be upon our Enemies.

I believe in the East the Turkish Empire is decaying, which indeed is no more than the fulfilling of Part of the Prophet Daniel, if our best Interpreters are to be credited. We find in this our Day a Foundation laying for a new Empire in the West: The Rubbish is perhaps not yet cleared away; but Greece and Rome were once in their infant State, and the History of the World is only one continued Scene of Revolutions; and whoever in the Year 1888 shall read those of the then last revolving Century, will see into a surprising Series of Transactions, which their dim-sighted Ancestors never once dreamt of. But I say no more, but having given the Figure of the Heavens at the Solar Ingress into the first Scruple of Aries, leave it to my annual Readers to look over in secret, or laugh at in public, as their various Dispositions may incline them, and proceed next to

The SUMMER QUARTER,

Which this Year commences on Friday the 20th of June, at 8 in the Evening, Sol then entering into the first Scruple of Cancer. The Face of the Heavens at the Time abovementioned, is as follows: Three Degrees of ♍ culminate, and 27° 47′ of ♐ ascend. ☉ is applying to a ☌ with ♃ in the seventh House. ♄ is preparing for 3 Oppositions, and there is toward the End of the Quarter a formidable □ of ♃ and ♂. Some agreeable Aspects of a salutary Nature however intervene in the Course of this Quarter. Pray we that the Labours of the industrious Countryman may be crowned with a plentiful Harvest, and the Winds and the Waves be propitious to Commerce; then if here and there a rich Man departs this Life, as he cannot take his Wealth along with him, the Matter will affect none but surviving Relations, and that perhaps to their great Comfort. Whoever knows any Thing of the Anatomy of the human Heart, must give Evidence to the Truth of the old Proverb, "That fat Sorrow is better than lean Grief;" and a rich Legacy, like a cordial Draught, greatly comforts the Heart, and exhilarates the Spirits, extracting the black Mourning from the inward Recesses of the Soul, and comfortably spreading it in a beautiful sable all over the Body. I shall conclude my Observations upon this Season with the following Verses by an unknown Hand.

"Now shall the God of Nature claim my Praise,
Wake my first Songs, and share my latest Lays.
Each Night and Morn shall string the duteous Lyre,
And all my Nerves retouch with sacred Fire:

Hills,

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Hills, Vales, and Groves, the ſounding Anthem own,
And the ſweet Echoes reach th' unſhaken Throne,
Where reigns for ever in unclouded Day
My Guide, that leads at once and lights my Way.
He from my Paths will turn th' oppoſing Wind,
And give my Feet the Swiftneſs of the Hind;
Life's rugged Paths make like the pleaſant Plains,
On whoſe ſmooth Ground the Trav'ller ſooths his Pains."

Of the AUTUMNAL QUARTER.

The Autumnal or Harveſt Quarter commences at what Time the Sun, entering upon Libra, tempers Heat with Cold; balances Day and Night; and, leaving the ſtormy Boreas in full Poſſeſſion of his gloomy North, prepares to enliven the Southern Hemiſphere with his vivifying Beams.

This Quarter begins September the 22d, at 9 Hours 42 Min. mane, when the Scheme of the Heavens is as follows: 28 Deg. 41 Min. of ♊ aſcend, and 23° of ♒ culminate; the Moon in a cadent Houſe, departing from ✱ with ♀, and applying to a □ with ☉, and a △ with ♄, who is retrograde, and all the Planets *ſub terra* except ☽ and ♄. With the above data I leave the ſtudious in Prognoſtications of future Events to make his own Comments upon the Subject. The World we live in is a Scene of continual Mutations; and the Parts we act upon the Stage of Life are at the beſt but tragi-comic. It behoves us, therefore, in whatever Character we appear, ſo to act as becomes that Character in the Drama of Life, that whatever Act we make our Exit in, we may finiſh our Parts with a univerſal Plaudit; remembering always, that whatever Oppoſitions we may meet with here, or however retrograde the Affairs of Life may run contrary to our Wiſhes, yet as the Farce will ſoon be over, it is ours to ſquare our Actions in ſuch ſort, that when the Curtain drops, and the Play is over, we may find a happy Conjunction with the bleſſed Immortals in the Regions of eternal Glory. May a conſtant Reflection on this have a due Influence upon all our Actions.

"So ſhall our Lives, like jocund May,
Paſs eaſy and ſerene;
Thus Summer, Autumn fade away,
And Winter cloſe the Scene."

A Concluſion upon the preſent Subject cannot ſurely be more properly made, than by introducing a few Lines from that

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divine Hymn wrote by the juſtly celebrated Author of the Seaſons.—When we conſider the ſmiling Spring, the blazing Summer, the bounteous Autumn, and the cloud-veil'd Winter, ſucceeding each other, what Reflection can be more natural, or more worthy a Being endowed with rational Faculties, than the following:

"Theſe as they change, ALMIGHTY FATHER, theſe,
Are but the *varied* GOD. The rolling Year
Is full of Thee. Forth in the pleaſing Spring
THY Beauty walks, THY Tenderneſs and Love
Wide flush the Fields; the ſoft'ning Air is Balm;
Echo the Mountains round; the Foreſt ſmiles;
And ev'ry Senſe, and ev'ry Heart is Joy.
Then comes thy Glory in the Summer Months,
With Light and Heat refulgent. Then thy Sun
Shoots forth Perfection through the ſwelling Year:
And oft thy Voice in dreadful Thunder ſpeaks;
And oft at Dawn, deep Noon, or falling Eve,
By Brooks and Groves in hollow whiſp'ring Gales,
Thy Bounty ſhines in Autumn unconfin'd,
And ſpreads a common Feaſt for all that lives.
In Winter awful THOU! With Clouds and Storms
Around Thee thrown, Tempeſt o'er Tempeſt roll'd,
Majeſtic Darkneſs! On the Whirlwind's Wing,
Riding ſublime, THOU bidſt the World adore,
And humbleſt Nature with thy Northern Blaſt."

We ſhall finiſh this Year's Obſervations with a few Lines taken from a Paper of the Rev. NEVIL MASKELYNE, D.D. F.R.S. and Aſtronomer Royal, which was read at the Royal Society, June 20, 1786.

"The Comet of 1531, 1607, and 1682, having returned in the year 1759, according to Dr. HALLEY's Prediction in his *Aſtronomiæ Cometicæ Synopſis*, there is no Reaſon to doubt but all the other Comets will return after their proper Periods."—I have only Room here to ſay further, from this learned and ingenious Paper, that Aſtronomers have generally agreed, that the Comets of 1532 and 1661, being one and the ſame, we might expect its Return to its Perihelium at the latter End of the Year 1788, or the Beginning of 1789.

We

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We proceed now to the Anſwers to the Enigmas, Queries, Rebuſſes, &c. given in our laſt, together with ſuch new ones as are come to our Hands. And as it is with the greateſt Pleaſure that we find the Number of our ingenious and reſpectable Correſpondents increaſe, we think it a Duty upon us to return our ſincere Thanks for their Favours, promiſing at the ſame Time, that every Thing in the Editor's Power ſhall be done to oblige them. It is a ſmall annual Banquet, cooked up for the Sons of Ingenuity; and thoſe who formerly aſſiſted in furniſhing out the Entertainment, but of late have not favoured us with their Company, we kindly excuſe them, (after Thanks for their former Favours,) by ſuppoſing that either they are dead; or elſe they are married, and cannot come.

The Anſwers to the ENIGMAS, &c. in our laſt are as follows:

1ſt Enigma, a Pair of Shoes
2d. Gunpowder
3d. A Cherry
4th. Flax
5th. A Candle
6th. An Inkſtand

1ſt Rebus, Miſs Farrow
2d. A Rebus
3d. Ward
4th. Wind
Anagram, a Rope.

All the Enigmas anſwered by Mr. Benjamin Kemp.

Shoes, Gunpowder, Cherry, Flax, Inkſtand and Taper,
The Enigmas will ſolve on a ſmall Scrap of Paper.

The ſame anſwered by Mr. Matt. Huddleſtone.

My Mind it paſs'd, that Doctor Laſt
A Pair of *Shoes* did ſend us;
Needham of Courſe meant *Powder*'s Force,
From which good Heav'n defend us.

Senex, thy Verſe in ancient Dreſs,
Seems now a wither'd *Cherry*,
And Toby's Muſe can, if ſhe chuſe,
Or make one ſad or merry.

Kemp choſe to write by *Candle*-light,
While Toby choſe to fix
On *Flax*; my Muſe an *Inkhorn* ſhews;
So now you've got all Six.

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All the Enigmas anſwered by Mr. William Huddleſtone, Jun. of Edingley.

One Morning as muſing I lay on my Bed,
And *Seaſon*'s Enigmas poſſeſſing my Head;
I roſe up in Haſte, took my *Inkſtand* and Paper, 6
And con'd them all o'er by the Light of a *Taper*: 5
But my Muſe is ſo crabbed, ſhe'll gain me no Favour:
For like *Cherries* unripe, ſhe is void of all Flavour. 3
And *Powder'd* Sir Fopling may cenſure my Muſe, 2
But I heed it no more than the Duſt on my *Shoes*: 1
I'll *Spin* out a Subject for Seaſon, and ſend it; 4
And they who're offended may try to amend it.

The ſame anſwered by Mr. John Ward, of Hinckley.

Poſting with Glee to Hinckley Fair,
I overtook my Charmer dear;
Her Cheeks like *Cherries*, *Shoes* ſo neat; 3, 1
Powder'd her Hair, her Dreſs compleat; 2
While her two Eyes ſhone much more bright
Than Diamonds do by *Candle*-light. 5
Her Linen was without an *Ink* Spot clean, 6 Inkſtand
And ſhe the Model of the Cyprian Queen.

The Enigmas anſwered, in a Reply to Major Benbow, by Miſs Maria Brittle.

Small Evils well-tim'd may much greater prevent;
And Silence full often is conſtru'd Conſent:
Elſe to write you an Anſwer I had not begun;
Do you think I'm as eaſily cock'd as your Gun?
What the Deuce could induce you at this Time of Day
To leave off your old for a new faſhion'd Way;
Green horns will but ill become one that is gray.
If you muſt talk of Wounds; and you would not talk ſtupid;
Speak of Wounds made by Mars, and not thoſe made by Cupid.
And think on't, old Warrior, how you muſt feel,
When you find that your Flint's not ſo good as my Steel.
Now ſince you no more can through Age cock your Gun;
Cock your Pipe, and talk over the Deeds you have done.
I ne'er in my Life could love thoſe who delight
In their *Gunpowder* Stories from Morning till Night. 2 Enig.
So lay by your *Inkſtand* and borrow an Arrow 6 Enig.
From Venus's Baſtard, and ſlap at Miſs *Farrow*; 1 Reb.

The

The Laſs that's ſo witty, ſo bright and ſo fair,
With her Lips red as *Cherries*, and fine *Flax*-en Hair. 3, 4 Enig.
While her Eyes ſpread a Light as ſhe glances around,
Much brighter than *Candles* at ſix in the Pound; 5 Enig.
So taper her Form is that no one can chuſe
But admire her ſweet Leg when ſhe puts on her *Shoes*. 1 Enig.
Nor yet be you daunted, ſhould ſhe ſpeak unkind;
For Woman's a *Rebus*, and Words are but *Wind*. 2, 4 Reb.
So a *Rope* for your Love, yet to ſhew my Regard;
Inſtead of a Lover, I'll chuſe you my *Ward*. Anag. 3 Reb.

All the Enigmas anſwered by Mr. John Needham, of Hinckley.

Amo te de iſta tam exprompta Benignitate.

Once more, Mr. Seaſon, I've took up my Pen,
And hoping to merit your Favour again;
T'accept of my Service, kind Sir, don't refuſe,
Wait only to clean your Poetical *Shoes*; 1
Nay, to fetch your Muſe *Cherries* or any Thing more, 3
And to light up your *Candle*, I've *Tinder* in ſtore. 5, 4
Believe me, dear Sir, I'm not in my Fun,
When I tell you I'm arm'd with Shot, *Powder*, and Gun. 2
So if Thieves ſhould aſſail in the Midſt of the Night,
I will riſe from my Bed, and to guard you I'll fight;
And then in the Morn if you ſhould me diſcard,
I will throw by my *Inkſtand*, and ſay it is hard. 6

All the Enigmas and Rebuſſes neatly and conciſely anſwered by Major Benbow.

Shoes, *Powder*, and *Cherries*, *Flax*, *Candle*, and *Ink-Stand*, ſolve all in due Order; at leaſt ſo I think.
Miſs Farrow and *Rebus*; Friend *Ward*, *Wind*, and *Rope*,
Ev'ry Riddle explain:—You're contented I hope.

Mr. Needham anſwers the Rebuſſes thus:

I wiſh you Correſpondents many,
That indeed is my Deſire;
Ward you'll find as good as any, 3
Rebuſſes he does admire. 2
Farrow loves the charming Muſes, 1
Gentle *Winds* begin to blow: 4
A *Rope* for him who now refuſes, Anag.
To Parnaſſus Hill to go.

The

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The ſame by Mr. B. Kemp.

As a Thief dreads a *Rope*, ſo I baniſh all Hope, Anag.
Should *Miſs Farrow* prove changing as *Wind*; 1, 4
But oh! may bright Phœbus with Riddle and *Rebus*, 2
Re-WARD her, if ſhe will prove kind.

Firſt Query anſwered by Mr. B. Kemp.

BENBOW, if e'er you felt Love's ſubtle Dart,
Diſtil like pois'nous Potions round your Heart;
If ſtill the ſcornful Fair your Thoughts aſſail,
Alas! cold Pudding little will avail:
Therefore believe it all a Goſſip's Tale.

Second Quere anſwered by the ſame as follows:

The firſt Health we meet with in Hiſtory ſeems to have taken Place in the Year 449, and was drank to King Vortigan, by Rowena, Daughter to Hengiſt, then General of the Weſt Saxons: She, holding a gold Cup of Wine in her Hand, ſaid, "Be of Health, O King;" to which Vortigan replied, "Drink Health round." The Story adds, that Vortigan afterwards made her his Wife, and preſented her Father Hengiſt with the whole Kingdom of Kent.

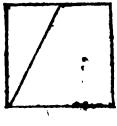
In like Manner it was anſwered by Mr. J. Needham.

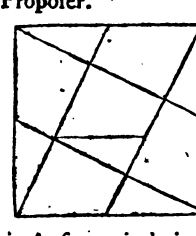
Third Query anſwered by Mr. B. Kemp, Mr. J. Needham, and Mr. William Huddleſtone.

Spina, a Monk of Piſa, invented Spectacles in the Year 1299.

Fourth Query anſwered by the Propoſer.

Make five Squares of equal Dimenſions, and divide them as in the Margin on the Left, viz. from the Middle of a Side to an Angle.—Place them as in the Figure on the Right, and the Buſineſs is compleated.





The Editor thanks the Gentleman for his Anſwer, it being the only one he has had; and wiſhes his ingenious Correſpondents to purſue the Plan laid down by Senex in the Year 1786.

New

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New ENIGMAS for the Year 1788.

First Enigma by Mr. John Ward of Hinckley.

Attend a while, Seaſonian Wits of Fame,
While I my Parts and Properties proclaim:
Head—Arms I boaſt; Legs none—ſo cannot walk;
A Mouth, through which I drink but never talk.
I, Argus like, a hundred Eyes can ſhow,
Through which my Tears moſt plentifully flow.
I ſleep in Winter; but in Summer Time,
When Fields are gay, and Flora in her Prime,
Aurora clear, Narciſſa ſtrives to live,
Then my Aſſiſtance I to Flora give.
From theſe ſmall Hints I beg my Name you'll tell;
I ſay no more but—gentle Bards farewell.

Second Enigma, by Mr. William Huddleſtone, jun. Edingley.

Celeſtial Nine, aſſiſt the timid Lays
Of him who at your Shrine due Homage pays;
While I deſcribe two Brethren of Renown,
Belov'd and fam'd in Country and in Town.
Two Brethren we; alike in Size and Make,
Yet oft are known alternate Paths to take;
And oft oppoſe each other's Courſe likewiſe,
For when my Brother falls, lo! then I riſe.
You'll find us active Members with the great,
Yet ne'er deny our Aid to low Eſtate.
We deal in Gold and Silver, Lead or Braſs;
Each for the Uſe of Man created was:
Yet oft like Traitors hung in Chains are we,
Until our Tyrants pleaſe to let us free.
Yet to our Int'reſts we, for ever true,
It muſt be own'd give ev'ry Man his Due.

Third Enigma, by Mr. B. Kemp, Farnsfield.

Look back thro' all Ages, if Hiſt'ry you'll trace;
View Sculpture or Painting, all prove I took place,
Near the Time when we date all the Maſculine Race.
With the Feminine Gender I ne'er much agreed,
No doubt the Reſult of what Wiſdom decreed.
Such Marks of Reſpect and Sedateneſs I bore,
With our great Forefathers, the Sages of Yore;

That

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That to ruffle my Form, or diſhevel my Mien,
Was deem'd an Affront moſt unſeemly obſcene.
But now, Sirs, what ſtrange Contradictions take place;
By the modern Fantaſtics, I'm thought a Diſgrace;
And Means are contriv'd, and fit Weapons employ'd,
By the which for a Time I'm repuls'd and annoy'd.
But a total Suppreſſion they ne'er can obtain,
For I quickly emerge and perplex them again.

Fourth Enigma, by Mr. Matt. Huddleſtone, Edingley Moor.

When Adam dwelt in Eden's Grove,
In ſpotleſs Innocence and Love,
I was unknown on Earth:
But when—(ſad Day!) Satanic Pow'r
Infernal reach'd the bliſsful Bow'r,
Tranſgreſſion gave me Birth.

When righteous Abel's Blood was ſpilt,
I mark'd the Perpetrator's Guilt,
But conſcious Sin diſplay'd;
And ere ſince then, my Crimſon Veſt
Hath e'er ſince then my Shame expreſs'd,
Or Modeſty betray'd.

Ere Phœbus hails the bluſhing Morn,
Oft I the Eaſtern Skies adorn:
My Beauties there behold.
But ſtop:—Ingenious Bard of Fame,
This faithful Witneſs ſays my Name
Is but too plainly told.

Fifth Enigma, by Mr. John Needham, Hinckley.

Inſtrue præceptis animum, nec diſcere ceſſes.

Indulgent Seaſon; 'tis of you I crave
Among your Bards of Fame a Place to have,
If pungent Woe merits your kind Regard,
With Sympathy you'll ſay my Fate is hard.
I beaten was, when I was not to blame,
By a vile Wretch whom I forbear to name.
I bore much Wrong that he might ſhun the Stroke;
Yet to his brutal Rage full modeſtly I ſpoke.
My injur'd Innocence did then appear,
Enough to force from Nero's Eye a Tear.
Heart-rending Thought: Yet I this Truth can tell,
In Eden's Plains my happy Sire did dwell.

But

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But I despis'd, rejected, meet with Scorn;
Forsaken by the Rich, and left forlorn:
No Galley-Slave of the most base Degree
Is treated now with more Contempt than me;
Me who am made a Mark of Ridicule,
An Epithet for ev'ry stupid Fool.
In Eastern Climes with me it was not so,
And Sages priz'd me, Ages long ago.
Not India's Riches, nay, the World's great Store
Could purchase half the Treasure once I bore,
When not the Taunts of Fools did me annoy,
But Crowds exulting sung the Song of Joy.
And tho' I'm now degraded in your Eyes,
I wear an Ensign which the Virtuous prize.

Sixth Enigma, by Mr. P. Hardy, Hickling.

When the great Pow'r Omnipotent had giv'n
Their Orbits to the lucid Globes in Heav'n;
When Phœbus shed forth his refulgent Ray,
And chas'd the gloomy Darkness far away;
I backward that Period do trace
The Origin of my most num'rous Race.
In Eden's Groves spontaneous I've been,
And, strange to tell, in human Form was seen.
I drew a Draught of those delightful Bow'rs,
Both in diurnal and nocturnal Hours.
When Guilt and Pain our first sad Parents knew,
To my Domain for Shelter then they flew.
Such is my Skill in Portraits, great or small,
Children of Earth, I fairly draw you all.
Yet not to Earth's dim Orb confin'd; I fly
To Realms unknown, and range around the Sky;
Controul the Sun in his appointed Way,
And pallid Luna owns my mighty Sway.
But hold, enough is said;—too much I doubt;
I'll hide my Head while you go search me out.

Seventh Enigma, by Major Benbow.

If Pity ever lent a gracious Ear,
Or Merit scorn'd e'er gain'd a falling Tear;
Or ever Theme deserv'd a tender Lay,
Or Worth to please could ever find the Way,
Ye Fair attend:—Be silent ev'ry Grove;
Ye feather'd Songsters cease your Notes of Love;

Be

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Be huſh'd, ye Waters; Winds, forget to blow,
And let a Stranger, "whiſper out his Woe."
While not a Breath diſturbs the Silence round,
But love-pin'd *Echo* catch the dying Sound.
Ah! why, ye Bards, who deal in myſtic Song,
Oh! why have I eſcap'd a Lay ſo long.
It has been otherwiſe—there was a Time—
But Dogs ſhall have their Day, and I have mine.
Yet ſtill 'tis odd ſuch Things ſhould come to paſs,
You need but draw a Trait of what I *was*,
And what I am will ſtill a Riddle be,
Thus Time has wrought ſuch wond'rous Change in me.
In ancient Days (believe what Clio ſings)
I was allied to Demi-gods and Kings.
Hence follow'd Bloodſhed, when a Woman's Charms
And curs'd Ambition ſet a World in Arms:
Hence *Hector*'s Fate;—imperial *Troy*'s Decree;
And thou, *Achilles*, ow'ſt thy Fate to me.
But theſe no more—a ſofter Theme I chuſe,
Scenes, ſuch as painted by the Mantuan Muſe;
Wherein ſhe ſings the Manners of the Swains,
When Peace and Freedom rov'd Arcadia's Plains;
He too you'll find, in Strains immortal ſung,
How Arts and Sciences from me have ſprung,
With Deeds that ſpeak me ſomewhat more than Man,
As *Pallas* knows, and cloven-footed *Pan*.
But juſt as much as Truth Romance outvies,
Above what's ſpoken that which follows prize.
When Weeds uncouth a glorious Prize conceal'd,
To me the heav'nly Secret was reveal'd.
But 'tis in holy Writ——there read my Fame,
And pious Paſtors not diſown my Name.
I claim cloſe Kindred with our gen'ral Mother,
And *Cain* deſtroy'd me when he kill'd his Brother.

New REBUSES, QUERIES, CHARADES, &c. to be anſwered.

Firſt Rebus, by Mr. Matt. Huddleſtone.

A Vowel that's doubled divide by two Fives,
And a Creature full many do lack
You ſhall find, that will cheriſh and comfort our Lives,
And ſupport both the Belly and Back.

Second

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Second Rebus, by a Bachelor of the Vale.

Two-third of the Ladies without further ſpelling,
Declare what will ſave me the Trouble of telling.

Third Rebus, by Miſs Maria Brittle.

Dear Ladies I beg you'll your Anger ſuſpend,
By taking off Part of a Letter!
A Servant of Honour will then you attend,
Which ſurely will pleaſe you much better.
But if in your Fury you ſmite off his Head,
The Conſequence then will be greater;
As you'll then ſee the Thing which at preſent you dread,
And wiſh that it ſtill might be later.

Fourth Rebus, by Mr. J. Ward.

My ſecond's a Subſtance, my firſt a Denial,
The whole but a Cypher, you'll find upon Trial.

Firſt Quere, by the ſame.

When and what gave riſe to the preſent Motto of the King of England, viz. "*Dieu et mon Droit.*"

Second Quere, by Mr. William Huddleſtone.

Whence comes it to paſs that the inſide of Glaſs
So aptly contracts the Hoar-Froſt,
While the outſide is free, pray you Gents tell to me,
Since to find out the Reaſon I'm loſt.

Third Quere, by a Bachelor of the Vale.

Ye Artiſts, I here humbly crave your Aſſiſtance,
In planting five Trees at exact equal Diſtance,
That from any a right Line without Variations,
May reach all the reſt in their ſeveral Stations.

CHARADES.

The famous Dr. Laſt 'tis ſaid,
The other Day made a Charade,
'Twas wrote in Verſe you will ſuppoſe,
But there you're wrong—it runs in Proſe.

Firſt Charade, by Dr. Laſt.

My firſt runs from you; my ſecond runs into you; and my third runs through you.

Second

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Second Charade, by Mr. William Huddleſtone.

My firſt's the young Offspring on parental Lap;
My ſecond's a Fowler's or Fiſherman's Trap.
My whole if perform'd with Judgment and Care;
Among muſical Friends gives Delight to the Ear.

Third Charade, by Mr. Matt. Huddleſtone.

The Poſtmaſter rates by my firſt,
My ſecond is hard by my Door;
To my whole you all ſafely may truſt,
It inſtructs both the Rich and the Poor.

Fourth Charade, by Mr. B. Kemp.

My firſt to gain—a Monarch fam'd of old,
Thro' Fear impell'd—his Kingdom would have ſold;
My ſecond view with Decorations meet,
A ſervile Slave at fair Belinda's Feet;
My whole as truſty Guardian keeps my Door:
Fly, Demons, fly:—Your Pow'r alarms no more.

Fifth Charade, by Mr. J. Needham.

My firſt is a Place where no Diſcords reſide;
My ſecond full oft in the Steeple is ſeen:
My third ſtands erect, and ſhews plainly to Pride
What ſoon it muſt be; likewiſe what it has been.

The Editor once more returns his ſincere Thanks to all his kind Contributors, hoping the Continuance of their Favours. He wiſhes likewiſe that they may be ſent on or before the 1ſt of May, otherwiſe they cannot be inſerted, as was the Caſe with Mr. Fidler, of Sutton-Mill, near Balſover, which we mention with Regret.

FINIS.

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Ὀλύμπια Δώματα·

OR, AN

ALMANACK

For the YEAR of

Our LORD GOD, 1788;

Being the

BISSEXTILE, or LEAP-YEAR,

And from the World's Creation, 5798.

Wherein is Contained the Lunations, Conjunctions, Aſpects, and Effects of the Planets; the Increaſe, Decreaſe, and Length of the Days and Nights; with the Riſing, Southing, and Setting of the Planets and fixed Stars throughout the Year; whereby may be known the exact Hour of the Night at all Times, when either the Moon or Stars are ſeen.

Calculated according to Art, and referred to the Horizon of the ancient and renowned Borough Town of *Stamford* (formerly a famous Univerſity) whoſe Latitude is 52 Deg. 20 Min. fitting all the middle Counties of *ENGLAND*, and, without ſenſible Error, the whole Kingdom.

Non eſt è Terris mollis ad Aſtra Via.

By TYCHO WING, *Philomath.*

LONDON:

Printed for the COMPANY of STATIONERS,

And ſold by ROBERT HORSFIELD, at their Hall, in Ludgate-Street.

[Price, ſtitched, NINE-PENCE.]

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Common NOTES and Moveable FEASTS.

Dominical Letters -	FE	Septuageſima Sund.	Jan. 20
Golden Number -	3	Shrove Sunday	Feb. 3
Epact - - -	22	Eaſter Day -	March 23
Cycle of the Sun -	5	Whit-Sunday -	May 11
Roman Indiction -	6	Trinity Sunday -	18
Number of Direction -	3	Advent Sunday	Nov. 30

A CATALOGUE of the Moſt Reverend, Right Reverend, and Reverend, the Archbiſhops, Biſhops, and Deans, exerciſing Eccleſiaſtical Juriſdiction in England, 1788.

Archbiſhops.	*Dean's Names.*	*Sees Names.*
Dr. John Moore	Dr. George Horne	Canterbury
Dr. Wm. Markham	Dr. John Fountayne	York
Biſhops.		
Dr. Robert Lowth	Biſhop Thurlow	London
Dr. Thomas Thurlow	Hon. Dr. Wm. Digby	Durham
Hon. Dr. Br. North	Dr. Newton Ogle	Wincheſter
Lord James Beauclerk	Dr. Nat. Wetherell	Hereford
Hon. Dr. James Yorke	Dr. William Cooke	Ely
Sir Wm. Aſhburnham	Dr. Charles Harward	Chicheſter
Hon. Dr. S. Barrington	Dr. John Ekins	Saliſbury
Dr. Lewis Bagot	Dr. Phillip Lloyd	Norwich
Dr. Chriſtoph. Wilſon	Dr. J. Hallam	Briſtol
Dr. Charles Moſs	Lord Fran. Seymour	Bath & Wells
Dr. Jonathan Shipley	Mr. W. Shipley	St. Aſaph
Dr. John Douglas	Dr. Jeffery Ekins	Carliſle
Dr. Richard Watſon	Dr. Adams, Archdeac.	Landaff
Dr. John Hinchcliffe	Dr. Tarrant	Peterborough
Dr. Richard Hurd	Dr. Foley	Worceſter
Dr. Samuel Halifax	Dr. Joſiah Tucker	Glouceſter
Dr. John Thomas	Dr. T. Dampier	Rocheſter
Hon. Dr. J^s Cornwallis	Dr. Proby	Litchf. & Cov.
Dr. John Warren	Dr. Thomas Lloyd	Bangor
Dr. Beilby Porteus	Dr. William Smith	Cheſter
Dr. John Butler	Dr. Cyril Jackſon	Oxford
Dr. John Roſs	Dr. William Buller	Exeter
Dr. Edward Smalwell	Mr. Wollaſton, Prec.	St. David's
Dr. Wm. Pretyman	Dr. Richard Kaye	Lincoln
	Dr. John Thomas	Weſtminſter
Mr. Claudius Crigan		Sodor & Man
	Hon. John Harley	Windſor

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A TABLE of TERMS and Returns for the Year 1788.

HILARY Term begins January 23, ends February 12.

Returns or Eſſoign Days.	Exc.	Ret.	App.	W. D.
In eight Days of St. Hilary - - Jan. 20	21	22	23	Wedn.
In fifteen Days of St. Hilary - - 27	28	29	30	Wedn.
On the Mor. of the Puriſ. of the Bl. V. M. Feb. 3	4	5	6	Wedn.
In eight Days of the Purif. of the Bl. V. M. 9	10	11	12	Tueſd.

EASTER Term begins April 9, ends May 5.

In fifteen Days of Eaſter - - April 6	7	8	9	Wedn.
From Eaſter Day in three Weeks - 13	14	15	16	Wedn.
From Eaſter Day in one Month - 20	21	22	23	Wedn.
From Eaſter Day in five Weeks - 27	28	29	30	Wedn.
On the Mor. of the Aſcenſion of the Lord May 2	3	4	5	Mond.

TRINITY Term begins May 23, ends June 11.

On the Morrow of the Holy Trinity May 19	20	21	23	Friday
In eight Days of the Holy Trinity - 25	26	27	28	Wedn.
In fifteen Days of the Holy Trinity June 1	2	3	4	Wedn.
From the Day of the Holy Trinity in 3 Weeks 8	9	10	11	Wedn.

MICHAELMAS Term begins November 6, ends November 28.

On the Morrow of All Souls - Nov. 3	4	5	6	Thurſ.
On the Morrow of St. Martin - 12	13	14	15	Saturd.
In eight Days of St. Martin - - 18	19	20	21	Friday
In fifteen Days of St. Martin - - 25	26	27	28	Friday

N. B. No Sittings in Weſtminſter-Hall on the Second of February, Aſcenſion-day, and Midſummer-day.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but Four Days.

Note, The firſt and laſt Days of every Term, are the firſt and laſt Days of Appearance.

The Names of the Learned JUDGES in the Law.

I. Rt. Hon. Lord Thurlow, Lord High Chancellor.

Right Hon. Sir Lloyd Kenyon, Bart. Maſter of the Rolls.

II. In the K. Bench.	Rt. Hon. W. Earl of Mansfield, L.C.J.	Sir Naſh Groſe, Knt.
	Sir Wm. Henry Aſhurſt, Knt.	Fran. Buller, Eſq.
III. In the Co. Pleas.	Rt. Hon. Al. Ld. Loughborough, L. C. J.	Sir H. Gould, Knt.
	John Heath, Eſq.	Sir John Wilſon, Kt.
IV. In the Exchequer.	Sir James Eyre, Knt. L. C. B.	Sir Alex. Thompſon, Kt.
	Sir Beaumont Hotham, Knt.	Sir Rich. Perryn, Kt.

Rd. Pepper Arden, Eſq. Att. Gen. Arch. M'Donald, Eſq. Sol. Gen.

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The REGAL Table.

The Year, Month, and Day, when each King and Queen began to reign, accounting the Year to begin *January* 1.			Length of each Reign.			Number of Years expired since their Reigns ended.	
Kings Names	began to reign		Y.	M.	D.	end	Kings Names
William I.	1066	Oct. 14	20	10	26	701	William 1
William II.	1087	Sept. 9	12	10	24	688	William 2
Henry I.	1100	Aug. 2	35	3	29	653	Henry 1
Stephen	1135	Dec. 1	18	10	24	634	Stephen
Henry II.	1154	Oct. 25	34	8	11	599	Henry 2
Richard I.	1189	July 6	9	9	0	589	Richard 1
John	1199	April 6	17	6	13	572	John
Henry III.	1216	Oct. 19	56	0	28	516	Henry 3
Edward I.	1272	Nov. 16	34	7	21	481	Edward 1
Edward II.	1307	July 7	19	6	18	461	Edward 2
Edward III.	1327	Jan. 25	50	4	27	411	Edward 3
Richard II.	1377	June 21	22	3	8	389	Richard 2
Henry IV.	1399	Sept. 29	13	5	20	375	Henry 4
Henry V.	1413	Mar. 20	9	5	11	366	Henry 5
Henry VI.	1422	Aug. 31	38	6	4	327	Henry 6
Edward IV.	1461	Mar. 4	22	1	5	305	Edward 4
Edward V.	1483	April 9	0	2	13	305	Edward 5
Richard III.	1483	June 22	2	2	0	303	Richard 3
Henry VII.	1485	Aug. 22	23	8	0	279	Henry 7
Henry VIII.	1509	April 22	37	9	6	241	Henry 8
Edward VI.	1547	Jan. 28	6	5	8	235	Edward 6
Q. Mary I.	1553	July 6	5	4	11	230	Q. Mary
Q. Elizabeth	1558	Nov. 17	44	4	7	185	Q. Elizabeth
James I.	1603	Mar. 24	22	0	3	63	James 1
Charles I.	1625	Mar. 27	23	10	3	139	Charles 1
Charles II.	1649	Jan. 30	36	0	7	103	Charles 2
James II.	1685	Feb. 6	4	0	7	99	James 2
Will. 3. & M.	1689	Feb. 13	13	0	23	86	William 3
Q. Anne	1702	Mar. 8	12	4	24	74	Q. Anne
George I.	1714	Aug. 1	12	10	10	61	K. George 1
George II.	1727	June 11	33	4	14	28	K. George 2
George III.	1760	Oct. 25	Crowned Sept. 22, 1761.				

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The Uſe of the following TABLE *of the Moon's Southing, to find the Time of High-Water, and the Hour of the Night.*

I. To find the Time of High-Water in moſt Parts of ENGLAND.

Take the Time of the Moon's Southing for the Day propoſed, and to that add the Hours and Minutes which ſtand againſt the Place required in the following Table of Sea-Coaſts, and the Sum will be the Time of High-Water at the Place required on that Day.

A Table of the Sea Coaſts.	H.	M.
Portſmouth, Queenborough, Southampton,	6	00
Rocheſter, Winchelſea, Fluſhing,	0	45
Downs, Graveſend, Ramkins, Guernſey,	1	30
Denbeigh, Bell-Iſle, Holy-Iſle, Downs-Road,	2	15
London, Tinmouth, Whitby, Hartlepool,	3	00
Scarborough, Berwick, Fluſhing, Staples,	3	45
Flamborough, Humber, Bridlington-Bay,	4	30
Plymouth, Ramſay, Newcaſtle, Severn,	5	15
Lynn, Foſdyke, Hull, Weymouth, Dartmouth, Croſs-Keys,	6	00
Boſton, Start-Point, Foulneſs, Briſtol-Key,	6	45
Bridgewater, Milford Haven, Lizard, Wintertown,	7	30
Yarmouth, Iſle of Wight, the Needles,	8	15
Iſle of Man, Orkney, Pool, South-Foreland,	9	10
Dover, Harwich, Orfordneſs, Bullein,	10	10
Rye, Solebay, Margate-Road,	11	15

II. To find the Hour of the Night by the Shadow of the Moon on a Sun-Dial.

1. When the Shadow falls preciſely on the Hour 12, then the Time of the Moon's Southing, found in the preceding Table is the exact Time of Night. But in other Caſes,

2. If the Shadow wants of 12, ſee how much it wants of it; which Time, ſubtracted from that of the Moon's Southing leaves the Time of Night. *Note*, You muſt add 12 Hours to the Moon's Southing, if Need be.

3. If the Shadow has paſt 12, add the Time that it has paſt it to the Time of the Moon's Southing; the Sum will be the Time of Night required; abating 12 Hours from the Sum, if Need be.

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A TABLE of the MOON's SOUTHING, of excellent Use to

M D	January h m	February h m	March h m	April h m	May h m	June h m	M D
1	6 m 25	7 m 22	6 m 50	☽ m 4	8 m 14	9 m 13	1
2	7 11	8 11	7 45	8 49	8 59	10 7	2
3	7 58	9 0	8 32	9 33	9 47	11 6	3
4	8 46	9 48	9 18	10 17	10 35	0 a 8	4
5	9 34	10 35	10 3	11 2	11 25	1 11	5
6	10 23	11 20	10 47	11 50	0 a 25	2 13	6
7	11 12	0 a 4	11 31	0 a 41	1 25	3 11	7
8	11 59	0 47	0 a 15	1 35	2 26	4 6	8
9	0 a 44	1 30	1 0	2 32	3 27	4 56	9
10	1 29	2 14	1 48	3 31	4 26	5 47	10
11	2 12	2 59	2 39	4 31	5 22	6 34	11
12	2 54	3 46	3 33	5 30	6 14	7 22	12
13	3 36	4 37	4 30	6 27	7 4	8 10	13
14	4 19	5 32	5 29	7 21	7 52	8 58	14
15	5 5	6 29	6 28	8 13	8 39	9 48	15
16	5 54	7 30	7 26	9 3	9 27	10 38	16
17	6 47	8 31	8 24	9 52	10 10	11 28	17
18	7 44	9 31	9 19	10 40	11 5	morn	18
19	8 45	10 2	10 11	11 29	11 56	0 18	19
20	9 48	11 24	11 2	morn	morn	1 6	20
21	10 51	morn	11 52	0 20	0 4	1 52	21
22	11 52	0 17	morn	1 11	1 38	2 36	22
23	morn	1 8	0 42	2 2	2 27	3 19	23
24	0 49	1 57	1 32	2 53	3 15	4 1	24
25	1 42	2 47	2 23	3 43	4 0	4 42	25
26	2 33	3 36	3 14	4 32	4 44	5 25	26
27	3 22	4 26	4 5	5 19	5 27	6 9	27
28	4 9	5 16	4 55	6 5	6 9	6 56	28
29	4 57	6 6	5 44	6 49	6 52	7 47	29
30	5 44		6 33	7 32	7 36	8 42	30
31	6 33		7 23		8 23		31

Spring Quarter begins	-	March 19d	10h 3m	afternoon.
Summer Quarter begins	-	June 20	8 2	afternoon.
Autumn Quarter begins	-	Sept. 22	9 42	morning.
Winter Quarter begins	-	Dec. 21	2 14	afternoon.

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find the Time of High-Water, and the Hour of the Night

M D	July h m	August h m	September h m	October h m	November h m	December h m	M D
1	9 m 42	11 m 29	0 a 57	1 a 29	2 a 54	3 a 7	1
2	10 45	0 a 26	1 49	2 23	3 45	3 52	2
3	11 48	1 21	2 41	3 16	4 33	4 35	3
4	0 a 50	2 14	3 33	4 8	5 1	5 17	4
5	1 49	3 5	4 25	4 59	6 4	5 58	5
6	2 44	3 55	5 17	5 49	6 47	6 39	6
7	3 35	4 45	6 8	6 3	7 29	7 22	7
8	4 2	5 35	6 58	7 22	8 11	8 7	8
9	5 13	6 25	7 47	8 6	8 54	8 56	9
10	6 2	7 16	8 34	8 49	9 39	9 49	10
11	6 50	8 7	9 19	9 32	10 27	10 45	11
12	7 4	8 56	10 2	10 15	11 18	11 44	12
13	8 3	9 44	10 45	11 0	morn	morn	13
14	9 20	10 30	11 28	11 47	0 13	0 44	14
15	10 9	11 14	morn	morn	1 11	1 44	15
16	10 58	11 57	0 12	0 36	2 10	2 42	16
17	11 45	morn	0 5	1 28	3 9	3 38	17
18	morn	0 3	1 44	2 23	4 6	4 31	18
19	0 30	1 22	2 33	3 20	5 1	5 21	19
20	1 14	2 5	3 25	4 1	5 54	6 10	20
21	1 56	2 5	4 20	5 16	6 44	6 58	21
22	2 37	3 37	5 17	6 12	7 33	7 47	22
23	3 19	4 27	6 15	7 6	8 22	8 37	23
24	4 2	5 20	7 14	7 58	9 12	9 28	24
25	4 48	6 15	8 11	8 49	10 2	10 19	25
26	5 36	7 15	9 6	9 40	10 54	11 11	26
27	6 28	8 15	10 0	10 31	11 46	0 a 1	27
28	7 24	9 15	10 52	11 23	0 a 39	0 48	28
29	8 23	10 14	11 44	0 a 15	1 30	1 34	29
30	9 25	11 11	0 a 37	1 8	2 20	2 18	30
31	10 27	0 5		2 1		3 0	31

VENUS is an Evening Star till Auguſt 8, and then a Morning Star for the reſt of the Year.

JUPITER is an Evening Star till June 29, then a Morning Star for the reſt of the year.

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Lunations.			... D	Jupiter sets	Venus sets
New Moon	8th day,	at noon.	1	6 m 40	5 a 23
First Quarter	16th day,	at 10 morning.	7	6 10	5 38
Full Moon	23d day,	at 2 morning.	13	5 42	5 55
Last Quarter	30th day,	at 1 morning.	1[illegible]	5 1[illegible]	6 1[illegible]
			2[illegible]	4 4[illegible]	6 2[illegible]

M D	W	Holy Days, ☉ rises & sets	☽ rises & sets	☽'s Longit.	☽'s Declin.	Aspects and Weather
1	Tu	Circumcision	1 m 1[illegible]	24 ♎ 8	13 s 43	☍ ♃ ☿
2	W	☉ rises 8h 4m	2 30	6 ♏ 35	17 32	
3	Th	☉ sets 3h 56m	3 39	18 46	20 31	Dark, cloudy comfortless weather.
4	F		4 42	0 ♐ 46	22 33	
5	S	*Old Christ. day*	5 40	12 3[illegible]	23 34	
6	F	Epiphany	6 32	24 27	23 31	*Tw.D.* ✱ ♄ ☿
7	M	*Plow Monday*	7 15	6 ♑ 14	22 24	☍ ☉ ♂
8	Tu	*Lucian*	☽ sets	18 [illegible]2	20 18	
9	W		5 a 23	29 54	17 20	Frosty, but not very severe.
10	Th	☉ rises 7h 58m	6 30	11 ♒ 50	13 39	
11	F		7 39	23 53	9 23	
12	S	*O. New Y. day*	8 47	6 ♓ 5	4 s 42	
13	F	1 S. aft. Epiph.	9 57	18 2	0 n 13	Hil. Ca. T. be.
14	M	Oxf. T. begins	11 8	1 ♈ 5	5 12	☍ ♂ ♀
15	Tu		morn	13 59	10 6	△ ♃ ♀
16	W	☉ sets 4h 9m	0 22	27 12	14 39	Rain or Snow.
17	Th	*Old Twelfth-d.*	1 39	10 ♉ 47	18 36	
18	F	Q. Ch. b. d. kep.	2 54	24 45	21 3[illegible]	*Prisca* ☍ ♂ ☿
19	S		4 10	9 ♊ 7	23 1[illegible]	
20	F	Septuagesima	5 16	23 5	23 30	*Fabian*
21	M	*Agnes*	6 11	8 ♋ 51	21 59	
22	Tu	*Vincent*	6 53	24 0	18 54	More mild.
23	W	Hil. Ter. beg.	☽ rises	9 ♌ 10	14 32	
24	Th		6 a 50	24 10	9 19	☌ ♄ ♀
25	F	Conv. St. Paul	8 13	8 ♍ 5	3 n 40	Rain or snow.
26	S	☉ rises 7h 37m	9 34	23 6	2 s 0	
27	F	Sexagesima	10 5[illegible]	6 ♎ 52	7 23	Pr. Aug. Pr. b.
28	[illegible]		morn	10 1[illegible]	12 14	
29	[illegible]	☉ sets 4h 28m	0 5	3 ♏ 0	16 22	Variable and perhaps windy.
30	W	K. Cha. I. mart.	1 16	15 28	19 40	
31	[illegible]		2 25	27 3	21 59	

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M D	Sun Longit	Sun Declin.	Jupiter Longit	Jupiter Declin	Mars Longit	Mars Declin.	Venus Long.	Venus Declin.
1	25 ♒ 48	14 s 18	17 ♊ 11 6	22 n 35	19 ♋ 54	25 n 52	29 ♑ 7	21 s 47
7	26 24	14 5	18 25	22 33	17 ♌ 30	20 21	6 ♒ 37	20 8
13	27 2	13 52	17 50	22 31	15 8	26 42	14 7	18 8
19	27 42	13 38	17 22	22 29	12 58	26 57	21 37	15 49
25	28 23	13 24	16 59	22 28	11 8	27 4	29 5	13 16

M D	⊙'s Longit	⊙'s Declin.	Observations
1	10 ♑ 51	23 s 1	Pole Star south at 5h. 59m. afternoon
2	11 53	22 56	Seven Stars south at 8h. 41m. afternoon
3	12 54	22 50	Saturn sets at 7h. 47m. afternoon
4	13 55	22 44	Mars rises at 3h. 42m. afternoon
5	14 57	22 38	
F	15 57	22 31	Day is 7h. 58m. long
7	16 59	22 23	Day is increased 16 minutes
8	18 0	22 15	Day breaks at 5h. 57m.
9	19 1	22 7	Twilight ends at 6h. 6m.
10	20 2	21 58	
11	21 3	21 49	Saturn sets at 7h. 18m. afternoon
12	22 5	21 39	Mars rises at 2h. 47m. afternoon
F	23 6	21 29	Day is 8h. 12m. long
14	24 7	21 19	
15	25 8	21 8	Pole Star south at 4h. 58m. afternoon
16	26 9	20 57	Seven Stars south at 7h. 40m. afternoon
17	27 10	20 45	Day is increased 38 minutes
18	28 11	20 33	Day breaks at 5h. 47m.
19	29 12	20 20	
F	0 ♒ 13	20 8	⊙ enters ♒ 48m. past 6 morning
21	1 14	19 54	Saturn sets at 6h. 41m. afternoon
22	2 15	19 41	Mars sets at 7h. 21m. morning
23	3 16	19 27	Twilight ends at 6h. 19m.
24	4 17	19 13	
25	5 18	18 5	Day is 8h. 44m. long
26	6 19	18 43	Day is increased 1h. 2m.
F	7 20	18 28	
28	8 21	18 12	Day breaks at 5h. 35m.
29	9 22	17 56	Twilight ends at 6h. 26m.
30	10 23	17 40	
31	11 24	17 23	

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Lunations.

New Moon 7th day, at morning.
First Quarter 14th day, at 9 night.
Full Moon 21st day, at 1 afternoon.
Last Quarter 28th day, at 8 night.

	Jupite sets	
1	4.n 15	6 [illegible]
7	3 51	7 12
13	3. 2	7 30
19	3	7 50
[illegible]	[illegible]	[illegible]

N.	W	Holy Days, ☉ rises & sets	☽ rise & sets	☽'s Longit.	☽'s Decli.	Aspects and Weather
1	F		3m 27	9 ♐ 35	23 s 18	
2	S	Purif. Candl. d.	4 21	21 24	23 32	△ ♂ ♀
3	S	Quinquage. S.	5 6	3 ♑ 9	22 43	*Blaze*
4	M		5 42	14 56	20 54	
5	Tu	Shrove-Tuef.	6 13	26 47	18 11	*Agatha.* △ ☉ ♃
6	W	Aſh-Wedneſ.	6 36	8 ♒ 45	14 41	Moderate.
7	Th		☽ ſets	20 52	10 33	
8	F	☉ riſes 7h 15m	6 a 30	3 ♓ ♄	5 57	□ ♃ ♀ . △ ♃ ♅
9	S	☉ ſets 4h 47m	7 42	15 35	1 s 4	Seaſonable.
10	S	Quadrageſ.	8 54	28 12	3 n 5	
11	M		10 6	11 ♈ 1	8 5	♂ ☉ ♅
12	Tu	Hil. T. ends	11 20	24 3	13 27	Miſty and cold.
13	W	Ember Week	morn	7 ♉ 1	17 28	*Old Cand. day*
14	Th	*Valentine*	0 36	20 5	20 41	Hoary
15	F		1 49	4 ♊ 38	22 45	
16	S	☉ riſes 7h 0m	2 57	18 45	23 21	♂ ♄ ♅
17	S	2 S. in Lent	3 57	3 ♋ 5	22 38	Froſt.
18	M		4 44	17 42	20 16	
19	Tu	☉ ſets 5h 6m	5 21	2 ♌ 30	16 33	♂ ☉ ♄
20	W		5 51	17 21	11 46	△ ♂ ♅
21	Th	☉ riſes 6h 51m	☽ riſes	2 ♍ 9	6 20	Moiſt.
22	F		7 a 7	16 44	0 n 38	
23	S	☉ ſets 5h 13m	8 23	0 ♎ 58	4 s 58	
24	S	3 S. in L. St.	9 41	14 48	10 9	Pr. Ad. Fred. b.
25	M	Matthias	10 56	28 10	14 41	△ ♃ ♅
26	Tu	☉ riſes 6h 41m	morn	11 ♏ 6	18 23	□ ♂ ♀
27	W		0 8	23 37	21 6	△ ☉ ♂
28	Th	☉ ſets 5h 23m	1 15	5 ♐ 50	22 40	
29	F		2 13	17 48	23 21	Stormy.

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M D	Saturn Longit.	Saturn Declin.	Jupiter Longit.	Jupiter Declin.	Mars Longit.	Mars Declin.	Venus Longit.	Venus Declin.
1	29 ♒ 11	13 s 7	16 ♊ 41	22 n 28	9 ♌ 33	27 n 5	7 ♓ 45	0 s
7	29 56	12 52	16 3	22 29	8 41	27 1	15 12	7 4
13	0 ♓ 38	12 37	16 3	22 30	8 17	26 54	22 37	4 0
19	1 22	12 21	16 42	22 31	8 22	26 44	29 57	0 5
25	2 6	12 6	16 5	22 24	8 52	26 32	7 ♈ 20	2 n 1

M D	☉'s Longit.		☉'s Declin.	Observations
1	12 ♒	24	17 s	Pole Star south at 10m. after 3h. 40m. afternoon
2	13	25	16 49	Seven Stars south at 6h. 30m. afternoon
F	14	26	16 31	Saturn sets at 5h. 56m. afternoon
4	15	27	16 13	Mars sets at 6h. 17m. morning
5	16	28	15 55	
6	17	29	15 37	Day is 9h. 22m. long
7	18	29	15 18	Day is increased 1h. 45m.
8	19	30	14 59	Day breaks at 5h. 3m.
9	20	31	14 40	Twilight ends at 6h. 42m.
F	21	31	14 21	
11	22	32	14 1	Saturn sets at 5h. 31m. afternoon
12	23	33	13 41	Mars sets at 5h. 0m. morning
13	24	33	13 21	Day is 9h. 48m. long
14	25	34	13 1	
15	26	34	12 40	Pole Star south at 2h. 52m. afternoon
16	27	35	12 20	Seven Stars south at 5h. 34m. afternoon
F	28	35	11 59	Day is increased 2h. 10m.
18	29	36	11 38	☉ enters ♓ 38m. past 9 afternoon
19	0 ♓	36	11 16	
20	1	37	10 55	Saturn sets at 5h. 1m. afternoon
21	2	37	10 33	Mars sets at 5h. 4m. morning
22	3	37	10 11	Day breaks at 4h. 55m.
23	4	37	9 50	Twilight ends at 7h. 6m.
F	5	38	9 27	
25	6	38	9 5	Day is 10h. 34m. long
26	7	38	8 43	Day is increased 2h. 13m.
27	8	38	8 20	Day breaks at 4h. 47m.
28	9	38	7 58	Twilight ends at 7h. 15m.
29	10	39	7 35	

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Lunations.

New Moon 7th day, at midnight.
First Quarter 15th day, at 5 morning.
Full Moon 21st day, at midnight.
Last Quarter 29th day, at 4 afternoon.

M D	Jupiter sets	Venus sets
1	am 25	8 a 20
7	2 5	8 46
13	1. 46	9 6
19	1 27	9 27
25	1 10	0 48

M	W D	Holy Days, ☉ rises & sets	☽ rises & sets	☽'s Longit	☽'s Declin.	Aspects and Weather
1	S	*David*	3 m 2	29 ♐ 38	22 s 51	Frosty,
2	E	4 S. in Lent	3 42	11 ♑ 24	21 21	*Chad*
3	M		4 15	23 13	18 56	cold and
4	Tu	☉ rises 6h 27m	4 40	5 ♒ 8	15 42	✱ ♅ ♀
5	W	☉ sets 5h 35m	5 2	17 13	11 47	sha p air.
6	Th		5 24	29 30	7 20	
7	F	*Perpetua*	☽ sets	12 ♓ 1	2 s 31	□ ☉ ♅
8	S		6 a 43	24 46	2 n 30	Unsettled weather,
9	E	5 S. in Lent.	7 57	7 ♈ 43	7 29	and so continues
10	M	☉ rises 6h 15m.	9 1	20 53	12 12	for some
11	Tu		10 29	4 ♉ 14	16 24	
12	W	*Gregory*	11 44	17 45	19 48	time.
13	Th		morn	1 ♊ 25	22 8	
14	F	Cam. T. ends	0 55	15 15	23 9	
15	S	Oxf. T. ends	1 56	29 14	22 45	
16	E	Palm Sunday	2 44	13 ♋ 23	20 53	Small rain.
17	M	*St. Patrick*	3 23	27 40	17 42	
18	Tu	*Edm. K. W.S.*	3 56	12 ♌ 2	13 20	✱ ♄ ♀
19	W		4 23	26 27	8 24	Temperate.
20	Th	*Maundy Thurs.*	4 45	10 ♍ 49	2 n 56	
21	F	Good Friday	☽ rises	25 2	2 s 37	*Benedict*
22	S	☉ sets 6h 9m	7 a 22	9 ♎ 0	7 5	
23	E	Easter Day	8 3	22 39	12 45	Changeable.
24	M	Easter Monday	9 55	5 ♏ 56	16 49	
25	Tu	Easter Tues.	11 4	18 49	19 56	
26	W	Lady Day	morn	1 ♐ 22	22 1	♂ ☉ ☿
27	Th	☉ rises 5h 41m	0 7	13 36	23 0	
28	F		1 0	25 37	22 52	
29	S	☉ sets 6h 23m	1 44	7 ♑ 29	21 43	✱ ♂ ♀
30	E	Low Sunday	2 21	19 17	19 35	Wet and cold.
31	M		2 5	1 ♒ 8	16 30	

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M D	Saturn Longit.	Saturn Declin.	Jupiter Longit.	Jupiter Declin.	Mars Longit.	Mars Declin.	Venus Longit.	Venus Declin.
1	2♓41	11 s 54	17 ♊ 14	22 n 3[illegible]	9 ♌ 35	26 n 21	13 ♈ 2[illegible]	4 s 53
7	3 24	11 38	17 4[illegible]	22 4[illegible]	10 4[illegible]	26 6	20 43	7 56
13	4 7	11 23	18 13	22 4[illegible]	12 1[illegible]	25 4[illegible]	27 5	10 54
19	4 4[illegible]	11 5	18 52	22 4[illegible]	13 5[illegible]	25 3[illegible]	5 ♉ 5	13 43
25	5 2[illegible]	10 5[illegible]	19 3[illegible]	22 52	15 5[illegible]	25 8	12 1	16 2[illegible]

M D	☉'s Longit.	☉'s Declin.	Observations
1	11 ♓ 39	7 s 12	Pole Star south at 1h. 55m. afternoon
E	12 39	6 49	Seven Stars south at 4h. 37m. afternoon
3	13 39	6 26	Saturn rises at 6h. 17m. morning
4	14 39	6 3	Mars sets at 4h. 22m. morning
5	15 39	5 40	
6	16 39	5 17	Day is 11h. 14m. long
7	17 39	4 53	Day is increased 3h. 35m.
8	18 39	4 30	Day breaks at 4h. 28m.
E	19 39	4 6	Twilight ends at 7h. 34m.
10	20 38	3 43	
11	21 38	3 19	Saturn rises at 5h. 53m. morning
12	22 38	2 56	Mars sets at 3h. 57m. morning
13	23 38	2 32	Day is 11h. 42m. long
14	24 37	2 [illegible]	
15	25 37	1 45	Pole Star south at 5h. 4m. afternoon
E	26 37	1 21	Seven Stars south at 3h. 46m. afternoon
17	27 36	0 57	Day is increased 4h. 15m.
18	28 36	0 34	Day breaks at 4h. 7m.
19	29 35	0 10	☉ enters ♈ 3m. past 10 afternoon
20	0 ♈ 35	0 n 14	
21	1 34	0 37	Saturn rises at 5h. 17m. morning
22	2 33	1 1	Mars sets at 3h. 30m. morning
E	3 33	1 25	Twilight ends at 8h. 3m.
24	4 32	1 48	Day is 12h. 26m. long
25	5 31	2 12	
26	6 31	2 35	Day is increased 4h. 51m.
27	7 30	2 59	Day breaks at 3h. 44m.
28	8 2[illegible]	3 22	Twilight ends at 8h. 20m.
29	9 28	3 45	Day is 12h. 48m. long
E	10 27	4 [illegible]	
31	11 26	4 32	

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Lunations.	M D	Jupiter sets	Venus sets
New Moon 6th day, at 1 afternoon.	1	0 m 50	10 a 12
First Quarter 13th day, at noon.	7	0 32	10 33
Full Moon 20th day, at noon.	13	0 12	0 52
Last Quarter 27th day, at noon.	19	1 a 52	1
	25	1 32	2

M		Holy Days, ☉ rises & sets	☽ rises & sets	☽'s Longit.	☽'s Declin.	Aspects and Weather
1	✱		3 m 13	13 ♒ 0	13 s 0	
2	☽	Ox. & Ca. T. be.	3 35	25 1	8 46	Wind and rain
3	Th	*Richard*	3 54	7 ♓ 40	4 s 6	at the beginning.
4	F	*St. Ambrose*	4 13	20 22	0 n 50	
5	S	*Old Lady Day*	4 30	3 ♈ 23	5 50	
6	E	2 S. aft. Easter	☽ sets	16 4	10 41	
7	M		8 a 22	0 ♉ 13	15 7	Temperate
8	Tu	☉ rises 5h 18m	9 40	13 56	18 49	brisk gales.
9	W	Easter T. beg.	10 52	27 54	21 28	
10	Th		11 57	11 ♊ 55	22 49	✱ ☉ ♅
11	F	☉ sets 6h 48m	morn	26 ☋	22 44	□ ☉ ♂
12	S		0 50	10 ♋ 8	21 11	Expect some wet
13	E	3 S. aft. Easter	1 33	24 16	18 20	about this time.
14	M		2 6	8 ♌ 24	14 23	
15	Tu	☉ rises 5h 5m	2 34	22 29	9 40	□ ♄ ♀
16	W		2 57	6 ♍ 31	4 n 28	
17	Th	☉ sets 6h 59m	3 19	20 26	0 s 54	Wind and rain.
18	F		3 39	4 ♎ 11	6 11	
19	S	*Alphege*	4 0	17 44	11 4	
20	E	4 S. aft. Easter	☽ rises	1 ♏ 2	15 21	
21	M		8 a 53	14 2	18 48	Pleasant weather.
22	Tu	☉ rises 4h 51m	9 58	26 45	21 15	
23	W	St. George	10 56	9 ♐ 11	22 36	
24	Th		11 44	21 23	22 51	
25	F	St. Mark. Prs.	morn	3 ♑ 23	22 c	Variable.
26	S	[Mary b.	0 24	15 16	20 12	
27	E	Rogation Sun.	0 55	27 5	17 31	
28	M		1 22	8 ♒ 57	14 7	✱ ☉ ♄
29	Tu	☉ sets 7h 21m	1 43	20 56	10 8	Cool and moist.
30	W		2 2	3 ♓ 7	5 41	

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	Saturn		Jupiter		Mars		Venus	
	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Long.	Declin.
1	0 ♓ 14	10 s 3	20 ♊ 33	22 n 58	18 ♋ 28	24 n 5	20 ♉ 33	19 n 5
7	6 52	10 26	21 27	23 2	20 50	24 11	27 ♊ 3	21 8
13	7 2	10 14	22 25	23 6	23 21	23 39	4 3	22 53
19	8 0	10 2	23 27	23 10	26 1	23 3	11 2	24 17
25	8 31	9 51	24 32	23 14	28 47	22 21	18	25 16

M	☉'s Longit.		☉'s Declin.	Obſervations
1	12 ♈ 25		4 s 55	Pole Star ſouth at 0h. 2m. afternoon
2	13	24	5 18	Seven Stars ſouth at 2h. 44m. afternoon
3	14	23	5 41	Saturn riſes at 4h. 32m. morning
4	15	22	6 4	Mars ſets at 2h. 55m. morning
5	16	21	6 26	
E	17	20	6 49	Day is 13h. 16m. long
7	18	19	7 11	Day is increaſed 5h. 39m.
8	19	18	7 34	Day breaks at 3h. 15m.
9	20	17	7 56	Twilight ends at 8h. 48m.
10	21	16	8 18	
11	22	14	8 40	Saturn riſes at 4h. 7m. morning
12	23	13	9 2	Mars ſets at 2h. 35m. morning
E	24	12	9 24	Day is 13h. 44m. long
14	25	10	9 45	
15	26	9	10 6	Pole Star ſouth at 11h. 11m morning
16	27	8	10 28	Seven Stars ſouth at 1h. 53m. afternoon
17	28	6	10 49	Day is increaſed 6h. 15m.
18	29	5	11 9	
19	0 ♉	3	11 30	☉ enters ♉ 47m. paſt 10 morning.
E	1	1	11 51	Day breaks at 2h. 45m.
21	2	0	12 11	Saturn riſes at 3h. 30m. morning
22	2	58	12 31	Mars ſets at 2h. 45m. morning
23	3	56	12 51	
24	4	55	13 10	Twilight ends at 9h. 32m.
25	5	53	13 30	Day is 14h. 28m. long.
26	6	51	13 49	Day is increaſed 6h. 49m.
E	7	49	14 8	Day breaks at 2h. 21m.
28	8	48	14 27	
29	9	46	14 45	
30	10	44	15 4	

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Lunations.

New Moon 5th day, at midnight.
First Quarter 12th day, at 6 afternoon.
Full Moon 20th day, at 1 morning.
Last Quarter 28th day, at 5 morning.

D	Jupiter sets	Venus sets
1	11 a 20	11 a 36
7	11 2	11 44
13	10 44	11 48
19	10 27	11 42
25	10 8	11 43

M	W	D	Holy Days, ☉ rises & sets	☽ rises & sets	☽'s Longit	☽'s Declin.	Aspects and Weather
1		Th	Ascension St.	2m 21	15 ♓ 35	0 s 54	
2		F	Phil. & Jam.	2 31	28 22	4 n 2	☌ ♃ ☿
3		S	*Inv. of the Cr.*	3 0	11 ♈ 31	8 55	Wind and Rain
4		☩	S. aft. Ascen.	3 21	25 2	13 32	at the beginning.
5		M	Easter T. ends	3 48	8 ♉ 53	17 33	
6		Tu	*J. Ev. a. P.L.*	☽ sets	23 1	20 37	
7		W		9 a 51	7 ♊ 22	22 27	
8		Th	Oxf. Ter. ends	10 49	21 50	22 47	✱ ♃ ☿
9		F	☉ rises 4h 22m	11 36	6 ♋ 20	21 36	Temperate,
10		S		morn	20 47	18 59	
11		☩	Whit Sunday	0 12	5 ♌ 7	15 14	
12		M	Whit Monday	0 42	19 18	10 38	*Old May day*
13		Tu	Whit Tuesday	1 5	3 ♍ 18	5 33	and ☽ contin.
14		W	Ember Week	1 27	17 7	0 n 16	
15		Th		1 48	0 ♎ 42	4 s 57	△ ♄ ☿ . □ ☌ ☿
16		F	☉ sets 7h 49m	2 7	14 3	9 52	✱ ♄ ☿
17		S	☉ rises 4h 10m	2 29	27 11	14 14	✱ ☿ ☿
18		☩	Trinity Sun.	2 54	10 ♏ 5	17 52	
19		M	Q. Charl. born	3 24	22 45	20 34	*Dunstan.*
20		Tu		☽ rises	5 ♐ 12	22 15	Wet now about.
21		W	Oxf. Ter. beg.	9 a 41	17 27	22 50	
22		Th	Prs. Eliza. bo.	10 22	29 32	22 19	*Corpus Christi*
23		F	Trin. Term b.	10 57	11 ♑ 29	20 47	
24		S		11 24	23 20	18 21	
25		☩	1 Sun. af. Tri.	11 46	5 ♒ 10	15 10	
26		M	*Augustin*	morn	17 2	11 23	A brisk air, and
27		Tu	*Ven. Bede*	0 7	29 1	7 7	some showers.
28		W		0 26	11 ♓ 12	2 s 30	
29		Th	K. Cha. II. rest.	0 43	23 38	2 n 18	
30		F	☽ sets 8h 6m	1 1	6 ♈ 24	7 8	☌ ☉ ☿ . □ ♄ ☿
31		S		1 21	19 34	11 47	□ ☉ ♄

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M D	Saturn Long.	Saturn Declin.	Jupiter Long.	Jupiter Declin.	Mars Long.	Mars Declin.	Venus Long.	Venus Declin.
1	9♑ 0	9 s 42	25♊40	23 n 17	1♌39	21 n 41	24♊49	15 n 57
7	9 26	9 33	26 52	23 20	4 37	20 53	1♋21	26 1
13	9 49	9 25	28 5	23 22	7 40	20 2	7 46	26 3
19	10 9	9 19	29 20	23 24	10 47	19 7	14 1	25 32
25	10 26	9 14	0♋37	23 24	13 59	18 7	20 3	24 32

M D	Sun's Longit.	Sun's Declin.	Observations
1	11 ♉ 42	15 s 22	Pole Star south, at 10 h. 10 m. morning
2	12 40	15 39	Seven Stars south, at 0 h. 52 m. afternoon
3	13 38	15 57	Saturn rises at 2 h. 46 min. morning
E	14 36	16 14	Mars sets at 1 h. 38 min. morning
5	15 34	16 31	
6	16 32	16 48	Day is 15 h. 6 min. long
7	17 30	17 4	Day is increased 7 h. 27 minutes
8	18 28	17 21	Day breaks at 1 h. 40 minutes
9	19 26	17 37	Twilight ends at 10 h. 27 minutes
10	20 24	17 52	
E	21 22	18 7	Saturn rises at 2 h. 17 min. morning
12	22 20	18 22	Mars sets at 1 h. 16 min. morning
13	23 18	18 37	Day is 15 h. 28 min. long
14	24 15	18 51	
15	25 13	19 5	Pole Star south at 9 h. 16 min. morning
16	26 11	19 19	Seven Stars south at 11 h. 58 min. morn.
17	27 9	19 33	Day is increased 7 h. 56 minutes
E	28 6	19 46	Day breaks at 0 h. 43 minutes
19	29 4	19 58	
20	0♊ 2	20 11	☉ enters ♊ 21 min. past 11 morning
21	0 59	20 23	Saturn rises at 1 h. 36 min. morning
22	1 57	20 34	Mars sets at 0 h. 48 min. morning
23	2 54	20 46	No real night
24	3 52	20 57	
E	4 49	21 7	Day is 16 h. 1 m. long
26	5 47	21 18	Day is increased 8 h. 22 minutes
27	6 44	21 28	No real Night, but
28	7 42	21 37	All Day or Twilight.
29	8 39	21 46	
30	9 37	21 55	
31	10 34	22 3	

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Lunations

New Moon the 4th day, at 9 morning
First Quarter the 10th day, at midnight
Full Moon the 18th day, at 3 afternoon
Last Quarter the 26th day, at 7 afternoon

M D	Jupiter sets	Venus sets
1	9 a 46	11 a 34
7	9 27	11 22
13	9 7	11 7
19	8 48	10 39
25	8 29	10 28

M D	W D	Holy-Days Sun rises & sets	☽ rises & sets	Moon's Longit.	Moon's Declin.	Aspects and Weather
1	E	2 S. aft. Trin.	1 45	3 ♉ 8	16 n 1	Nicomede
2	M	Sun rises 3 51	2 14	17 7	19 30	Wet.
3	T		2 52	1 ♊ 29	21 52	✱ ♂ ☿
4	W	K. Gec. III. b.	☽ sets	16 9	22 49	Boniface
5	T	P. Ern. Aug. b.	9 a 27	1 ♋ 0	22 11	
6	F		10 11	15 55	19 58	Fair and season-
7	S	Sun sets 8 13	10 43	0 ♌ 45	16 26	able
8	E	3 S. aft. Trin.	11 8	15 25	11 55	
9	M		11 31	29 49	6 48	
10	T		11 51	13 ♍ 54	1 n 27	
11	W	St. Barnabas	morn	27 39	3 s 50	Trin. Ter. ends
12	T		0 10	11 ♎ 4	8 50	
13	F	Sun rises 3 44	0 32	24 11	13 19	Hot and dry
14	S	Sun sets 8 16	0 56	7 ♏ 0	17 5	△ ♄ ☿
15	E	4 S. aft. Trin.	1 23	19 35	20 0	Perhaps some
16	M		1 57	1 ♐ 57	21 56	✱ ☉ ♂
17	T	St. Alban.	2 38	14 8	22 48	thunder now
18	W	Sun rises 3 43	☽ rises	26 12	22 34	about.
19	T		8 a 52	8 ♑ 9	21 19	
20	F	Tr. Ed. KWS	9 24	20 1	19 8	
21	S	Longest day	9 46	1 ♒ 51	16 9	
22	E	5 S. aft. Trin.	10 4	13 42	12 31	
23	M		10 25	25 35	8 23	Pleasant good
24	T	Nativ. J. Bap	10 43	7 ♓ 35	3 s 55	weather toward
25	W		11 1	19 46	0 n 47	the end.
26	T	Sun sets 8 16	11 19	2 ♈ 10	5 31	
27	F	Sun rises 3 44	11 40	14 53	10 9	
28	S		morn	27 58	14 28	
29	E	6 S. aft. Trin.	0 6	11 ♉ 27	18 11	St. Peter ☌ ☉ ♃
30	M	Sun sets 8 15	0 39	25 23	21 0	

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M D	Saturn Long.	Decl.	Jupiter Long.	Decln.	Mars Long.	Decl.	Venus Long.	Declin.
1	10 ♑ 42	9 s 19	2 ♎ 8	23 n 24	17 ♌ 47	16 n 53	26 ♎ 19	23 n 19
7	10 52	9 7	3 28	23 24	21 7	14 45	2 ♌ 18	21 53
13	10 58	9 6	4 48	23 21	24 29	14 34	7 27	20 14
19	11 0	9 6	6 9	23 18	27 54	13 20	12 8	19 28
25	10 59	9 8	7 31	23 15	1 ♍ 21	12 2	16 15	16 36

M D	Sun's Longit.	Sun's Declin.	Observations
E	11 ♊ 39	22 s 11	Pole Star south at 8 h. 8 min. morning
2	12 29	22 19	Seven Stars south at 10 h. 50 min. morn.
3	13 27	22 26	Saturn rises at 0 h. 46 min. morning
4	14 24	22 33	Mars sets at 0 h. 9 min. morning
5	15 22	22 40	
6	16 19	22 46	Day is 16 h. 24 min. long
7	17 16	22 51	Day is increased 8 h. 42 min.
E	18 14	22 57	No real Night, but
9	19 11	23 1	All Day, or Twilight.
10	20 8	23 6	
11	21 6	23 10	Saturn rises at 0 h. 12 min. morning
12	22 3	23 14	Mars sets at 11 h. 42 min. afternoon
13	23 0	23 17	Day is 16 h. 32 min. long
14	23 57	23 20	
E	24 55	23 22	Pole Star south at 2 h. 13 min. morning
16	25 52	23 24	Seven Stars south at 4 h. 55 m. morning
17	26 49	23 26	Day is increased 8 h. 50 min.
18	27 46	23 27	
19	28 44	23 28	☉ enters ♋ 2 min. past 8 afternoon
20	29 41	23 28	Saturn rises at 11 h. 30 min. afternoon
21	0 ♋ 38	23 28	Mars sets at 11 h. 10 min. afternoon
E	1 35	23 27	Day is increased 8 h. 50 min.
23	2 32	23 27	
24	3 30	23 25	
25	4 27	23 23	Day is 16 h. 34 min. long
26	5 24	23 21	Day is decreased 3 minutes
27	6 21	23 19	No real Night, but
28	7 18	23 16	All Day, or Twilight
E	8 16	23 12	
30	9 13	23 9	

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Lunations

	M D	Jupiter rises.	Venus sets.
New Moon the 3d day, at 4 afternoon	1	3 m 39	10 a 4
First Quarter the 10th day, at 8 morning	7	3 21	9 39
Full Moon the 18th day, at 7 morning	13	3 3	9 10
Last quarter the 26th day, at 6 morning	19	2 46	8 37
	25	2 29	8 3

M D	W D	Holy-Days Sun rises & sets	☽ rises & sets	Moon's Longit.	Moon's Declin.	Aspects and Weather
1	T	Camb. Com.	1 m 22	9 ♊ 46	22 n 35	△ ☉ ♄
2	W	Visit. V. M.	2 19	24 31	22 39	Windy.
3	T	Dog-Ds beg.	☽ sets	9 ♋ 34	21 6	
4	F	Trans. St. M.	8 a 34	24 45	18 2	Camb. T. ends.
5	S	O. Midsum. d.	9 5	9 ♌ 55	13 45	
6	E	7 S. aft. Trin	9 29	24 53	8 40	Seasonable
7	M	Oxford Act	9 51	9 ♍ 53	3 n 12	weather.
8	T		10 9	23 49	2 s 18	
9	W	Sun rises 3 51	10 32	7 ♎ 38	7 31	△ ♄ ♃
10	T	Sun sets 8 8	10 55	21 2	12 12	☍ ♄ ♂
11	F		11 21	4 ♏ 2	16 13	
12	S	Oxf. T. ends	11 53	16 42	19 21	✱ ♃ ♂
13	E	8 S. aft. Trin	morn.	29 5	21 31	
14	M	Swithin	0 32	11 ♐ 15	22 38	
15	T		1 18	23 16	22 42	Hot and sultry.
16	W	Sun rises 4 0	2 11	5 ♑ 10	21 43	
17	T	Sun sets 7 59	3 11	17 1	19 47	
18	F		☽ rises	28 51	17 0	
19	S		8 a 10	10 ♒ 42	13 32	
20		9 S. aft. Trin	8 29	22 35	9 32	Margaret.
21	M		8 46	4 ♓ 33	5 9	
22	T	Magdalen	9 4	16 38	0 s 33	
23	W	Sun rises 4 7	9 22	28 51	4 n 8	Hasty
24	T		9 43	11 ♈ 17	8 45	showers.
25	F	St. James	10 6	23 58	13 4	
26	S	St. Anne	10 36	6 ♉ 58	16 54	
27	E	10 S. aft. Trin	11 11	20 21	19 59	
28	M		morn.	4 ♊ 8	22 2	
29	T	Sun rises 4 16	0 0	18 21	22 44	
30	W		1 2	2 ♋ 58	21 55	
31	T	Sun sets 7 41	2 16	17 57	19 33	

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M D	Saturn Long.	Saturn Decl.	Jupiter Long.	Jupiter Decl.	Mars Long	Mars Decl.	Venus Long	Venus Decl.
1	10 ♓ 55	9 s 11	8 52	23 n 10	4 ♍ 51	10 n 42	19 ♌ 42	14 n 46
7	10 46	9 16	10 ♎ 13	23 5	8 25	9 18	22 18	12 58
13	10 35	9 22	11 34	22 59	12 1	7 52	23 50	11 22
19	10 20	9 28	12 55	22 52	15 39	6 24	24 5	10 4
25	10 3	9 35	14 15	22 44	19 20	4 54	22 55	9 9

M D	Sun's Longit.	Sun's Declin.	Observations
1	10 ♋ 10	23 s 5	Pole Star south, at 6 h. 5 min. morning
2	11 7	23 0	Seven Stars south at 8 h. 47 min. morning
3	12 5	22 55	Saturn rises at 10 h. 42 min. afternoon
4	13 2	22 50	Mars sets at 10 h. 34 min. afternoon
5	13 59	22 44	
E	14 56	22 38	Day is 16 h. 22 min. long
7	15 54	22 31	Day is decreased 0 h. 12 min.
8	16 51	22 24	No real Night, but
9	17 48	22 17	All day or twilight.
10	18 45	22 9	
11	19 42	22 1	Saturn rises at 10 h. 8 min. afternoon
12	20 40	21 53	Mars sets at 10 h. 9 min. afternoon
E	21 37	21 44	Day is 16 h. 10 min. long
14	22 34	21 34	
15	23 31	21 25	Pole Star south at 5 h. 8 min. morning
16	24 29	21 15	Seven Stars south at 7 h. 50 m. morning
17	25 26	21 5	Day is decreased 0 h. 33 min.
18	26 23	20 54	No real Night, but
19	27 20	20 43	All Day or twilight.
E	28 18	20 32	
21	29 15	20 20	Saturn rises at 9 h. 28 m. afternoon
22	0 ♌ 12	20 8	Sun enters ♌ 53 m. past 6 morning
23	1 10	19 55	Mars sets at 9 h. 34 min. afternoon
24	2 7	19 43	Day is 15 h. 42 m. long
25	3 4	29 30	
26	4 2	19 16	Day is decreased 0 h. 57 min.
E	4 59	19 3	Day breaks at 0 h. 57 min.
28	5 56	18 49	Twilight ends at 10 h. 52 m.
29	6 54	18 34	Day is 15 h. 28 min. long
30	7 51	18 20	
31	8 49	18 5	

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Lunations

New Moon the 1st day, at 11 night
First Quarter the 8th day, at 7 afternoon
Full Moon the 16th day, at 10 night
Last Quarter the 24th day, at 4 afternoon
New Moon the 31st day, at 7 morning

M D	Jupiter rises	Venus rises
1	2 m 9	9 a 8
7	1 52	8 50
13	1 36	8 33
19	1 20	8 18
25	1 4	8 2

M D	W D	Holy-Days ☉ rises & sets	☽ rises & sets	Moon's Longit.	Moon's Declin.	Aspects and Weather
1	F	Lammas-day	☽ sets	3♌ 9	55 n 49	
2	S		7 a 28	18 25	11 0	☌ ☉ ☿
3	E	11 S.aft.Trin.	7 51	3♍33	5 n 34	Misty mornings,
4	M	Sun rises 4 28	8 13	18 24	0 s 5	and rain at the
5	T		8 36	2♎50	5 35	beginning.
6	W	Transfigurat.	8 0	16 47	10 37	
7	T	Prs. Amelia b.	9 25	0♏15	14 56	Name of Jesus.
8	F	Sun sets 7 28	9 55	13 16	18 24	☌ ☉ ♀
9	S		10 32	25 53	20 52	Moderate.
10	E	12 S.aft.Trin.	11 16	8♐12	22 18	St. Lawrence.
11	M	Prs. Prud. b.	morn.	20 16	22 38	Dog-days end
12	T	Pr. Wales b.	0 8	2♑12	21 56	Old Lammas.
13	W	Sun rises 4 41	1 6	14 2	20 16	Seasonable.
14	T		2 8	25 51	17 44	
15	F	Assumption	3 13	7♒42	14 28	
16	S	D. of York b.	☽ rises	19 36	10 37	Rain about this
17	E	13 S.aft.Trin.	6 a 55	1♓36	6 20	time.
18	M		7 14	13 42	1 s 47	
19	T	Sun sets 7 9	7 34	25 56	2 n 53	
20	W		8 53	8♈19	7 30	☌ ♀ ☿
21	T	Pr. W. H. b.	8 16	20 52	11 52	Variable.
22	F		8 43	3♉38	15 47	
23	S	Sun rises 4 59	9 15	16 39	19 1	
24	E	14 S.aft.Trin.	9 59	29 58	21 19	St. Bartholomew
25	M		10 52	13♊37	22 26	
26	T	Sun sets 6 56	11 58	27 38	22 13	
27	W		morn	12♋ 1	20 31	Seasonable to-
28	T	St. Auguſtine	1 16	26 44	17 26	wards the con-
29	F	Beh. John Bap	2 39	11♌42	13 11	cluſion.
30	S		4 6	26 47	8 5	☌ ☉ ♄
31	E	15 S.aft.Trin.	☽ sets	11♍49	2 30	

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M	Saturn		Jupiter		Mars		Venus	
D	Long.	Decl.	Long.	Decl.	Long.	Deci.	Long.	Decl.
1	9 ♓ 39	9 s 46	15 ♎ 45	22 n 35	23 ♍ 39	3 n 8	19 ♌ 54	8 n 42
7	9 16	9 56	17 2	22 26	27 24	1 34	16 22	8 51
13	8 52	10 5	18 17	22 17	1 ♎ 12	0 0	12 44	9 23
19	8 26	10 15	19 30	22 7	5 1	1 s 35	9 48	10 11
25	7 59	10 26	20 41	21 58	8 53	3 10	8 6	11 1

M	Sun's	Sun's	Obſervations
D	Longit.	Declin.	
1	9 ♌ 46	17 s 49	Pole Star ſouth at 3 h. 54 min. morning
7	10 44	17 34	Seven Stars ſouth at 6 h. 36 min. morning
E	11 41	17 18	Saturn riſes at 8 h. 34 min. afternoon
4	12 39	17 2	Mars ſets at 8 h. 59 min. afternoon
5	13 36	16 46	
6	14 34	16 29	Day is 15 h. 4 min. long
7	15 31	16 12	Day is decreaſed 1 h. 31 min.
8	16 29	15 55	Day breaks at 1 h. 54 min.
9	17 27	15 37	Twilight ends at 10 h. 5 min.
E	18 24	15 20	
11	19 22	15 2	Saturn riſes at 8 h. 4 min. afternoon
12	20 19	14 44	Mars ſets at 8 h. 36 min. afternoon
13	21 17	14 25	Day is 14 h. 38 min. long
14	22 15	14 7	
15	23 12	13 48	Pole Star ſouth at 3 h. 7 m. morning
16	24 10	13 29	Seven Stars ſouth at 5 h. 49 min. morning.
E	25 8	13 10	Day is decreaſed 2 h. 6 min.
18	26 6	12 50	Day breaks at 2 h. 26 min.
19	27 3	12 30	
20	28 1	12 10	Saturn riſes at 7 h. 29 min. afternoon
21	28 59	11 50	Mars ſets at 8 h. 12 min. afternoon
22	29 57	11 30	Sun enters ♍ 14 min. paſt 1 afternoon
23	0 ♍ 55	11 10	Twilight ends at 9 h. 19 min.
E	1 53	10 49	
25	2 51	10 28	Day is 13 hours 56 minutes long
26	3 49	10 7	Day is decreaſed 2 h. 38 min.
27	4 47	9 46	Day breaks at 2 h. 53 min.
28	5 45	9 25	Twilight ends 9 h. 4 min.
29	6 43	9 3	
30	7 41	8 42	
E	8 39	8 20	

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Lunations

First Quarter the 7th day, at 9 morning
Full Moon the 15th day, at 1 afternoon
Last Quarter the 22d day, at 0 midnight
New Moon the 29th day, at 4 afternoon

M D	Jupiter rises	Venus rises
1	0 m 46	2 m 43
7	0 30	2 26
13	0 14	2 13
19	11 a 54	2 6
25	11 37	2 4

M D	W D	Holy-Days ☉ rises & sets	☽ rises & sets	Moon's Longit.	Moon's Declin.	Aspects and Weather
1	M	Giles	6 a 44	26 ♍ 39	3 s 8	Moist weather
2	T	Lon. b. 1666.	7 8	11 ♎ 7	8 27	at the com-
3	W		7 33	25 8	13 10	mencement of
4	T	Sun rises 5 22	8 3	8 ♏ 40	17 3	this Month.
5	F	Sun sets 6 37	8 38	21 45	19 56	
6	S		9 40	4 ♐ 24	21 43	☽ ♄ ☿
7	E	16 S. aft. Trin.	10 9	16 43	22 24	Enurchus.
8	M	Nat. B. V. M.	11 5	28 48	22 1	
9	T		morn	10 ♑ 42	20 38	Seasonable.
10	W	Sun rises 5 33	0 6	22 32	18 21	
11	T		1 11	4 ♒ 22	15 19	
12	F	Sun sets 6 23	2 17	16 15	11 40	
13	S		3 23	28 15	7 31	Brisk winds.
14	E	17 S. aft. Trin.	4 31	10 ♓ 23	3 s 3	Holy Cr. ♂ ☉ ☿
15	M		☽ rises	22 41	1 n 36	✱ ♃ ☿
16	T	Sun rises 45	6 a 9	5 ♈ 9	6 15	✱ ☉ ♃
17	W	Ember Week.	6 31	17 47	10 42	Lambert.
18	T		6 58	0 ♉ 36	14 44	□ ♃ ♂
19	F	Sun sets 6 9	7 28	13 36	18 7	Wind and rain.
20	S		8 8	26 48	20 38	
21	E	18 S. aft. Trin.	8 57	10 ♊ 13	22 2	St. Matthew.
22	M	K. C. 3. crow.	9 58	23 52	22 9	
23	T	Sun rises 5 59	11 9	7 ♋ 46	20 55	More season-
24	W		morn	21 56	18 22	able.
25	T	Sun sets 5 57	0 28	6 ♌ 21	14 39	
26	F	St. Cyprian	1 50	10 57	10 0	
27	S		3 13	5 ♍ 39	4 n 46	Rain with winds.
28	E	19 S. aft. Trin.	4 36	20 20	0 s 44	
29	M	St. Michael.	☽ sets	4 ♎ 53	6 8	Prs. Ch. A. M. b.
30	T	St. Jerome.	5 a 43	19 10	11 8	

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M D	Saturn Long.	Saturn Decl.	Jupiter Long.	Jupiter Decl.	Mars Long.	Mars Dec.	Venus Long.	Venus Decl.
1	7♑27	10 s 39	22♒26	0 21 n	46	13♎26	5 s 2	7♌57	11 n 51
7	7 0	10 49	23 5	21	36	17 22	6 37	9 14	12 22
13	6 33	10 59	24 6	21	26	21 21	8 11	11 39	12 35
19	6 8	11 8	25 4	21	17	25 22	9 43	15 0	12 31
25	5 44	11 17	25 5♈	21	8	29 25	11 15	19 5	12 10

M D	Sun's Longit.	Sun's Declin.	Observations
1	9♍37	7 s 58	Pole ſtar ſouth at 2 h. 4 min. morning
2	10 36	7 36	Seven ſtars ſouth at 4 h. 46 min. morning
3	11 34	7 14	Saturn ſets at 4 h. 56 min. morning
4	12 32	6 52	Mars ſets at 7 h. 36 min. afternoon
5	13 30	6 29	
6	14 29	6 7	Day is 13 h. 10 min. long
E	15 27	5 44	Day is decreaſed 3 h. 25 min.
8	16 25	5 22	Day breaks at 3 h. 26 min.
9	17 24	4 59	Twilight ends at 8 h. 31 min.
10	18 22	4 36	
11	19 21	4 13	Saturn ſets at 4 h. 24 min. morning
12	20 19	3 50	Mars ſets at 7 h. 16 min. afternoon
13	21 18	3 27	Day is 12 h. 42 min. long
E	22 16	3 4	
15	23 15	2 41	Pole ſtar ſouth at 1 h. 14 min. morning
16	24 13	2 18	Seven ſtars ſouth at 3 h. 56 min. morning
17	25 12	1 55	Day is decreaſed 4 h. 4 min.
18	26 11	1 31	Day breaks at 3 h 50 min.
19	27 9	1 8	
20	28 8	0 45	Saturn ſets at 3 h. 48 min. morning
E	29 7	0 21	Mars ſets at 6 h. 52 min. afternoon
22	0♎6	0 s 2	Sun enters ♎ 42 min. paſt 9 morning
23	1 4	0 26	Twilight ends at 8 h. 0 min.
24	2 3	0 49	
25	3 2	1 13	Day is 11 h. 54 m. long.
26	4 1	1 36	Day is decreaſed 4 h. 39 min.
27	5 0	1 59	Day breaks at 4 h. 10 min.
E	5 59	2 23	Twilight ends at 7 h. 48 min.
29	6 58	2 46	
30	7 58	3 10	

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Lunations

First Quarter the 7th day, at 3 morning
Full Moon the 15th day at 4 morning
Last Quarter the 22d day, at 7 morning
New Moon the 29th day, at 3 morning

M D	Jupiter rises	Venus rises
1	11 a 20	2 m 5
7	11 2	2 10
13	10 44	2 17
19	10 25	2 26
25	10 4	2 37

M D	W D	Holy-Days ☉ rises & sets	☽ rises & sets	Moon's Longit.	Moon's Declin.	Aspects and Weather
1	W	Remigius	6 a 9	3♏ 4	5 s 24	Cloudy and dark
2	T		6 45	16 35	8 43	
3	F	Sun rises 6 18	7 23	29 4	20 57	△ ♄ ♂
4	S		8 11	12♐21	22 3	
5	E	☉ S. aft. Tr.	9 5	24 43	22 1	□ ♅ ♆, * ♀ ♅
6	M	Faith	☉ 5	6♑49	20 56	Wind with rain.
7	T		11 8	18 45	18 56	
8	W		morn	0♒36	16 9	
9	T	St. Denys	0 12	12 27	12 42	
10	F	Ox.&Ca.T.b	1 19	24 23	8 44	Old Mich. day.
11	S		2 26	6♓28	4 s 24	Moderate.
12	E	☉ S. aft. Tr.	3 34	18 44	0 n 10	
13	M	Tr.KEd.Con.	4 42	1♈13	4 49	♂ ♄ ♀
14	T		5 42	13 56	9 22	Seasonable, but
15	W	Sun sets 5 18	☽ rises	26 53	13 34	windy.
16	T		5 a 35	10♉3	17 11	
17	F	Etheldred	6 14	23 26	19 57	♂ ♂ ♅
18	S	St. Luke	6 59	6♊59	21 38	More moderate.
19	E	☉ S. a. t. Tr.	7 59	20 42	22 3	
20	M		8 8	4♋33	21 7	
21	T	Sun rises 6 53	10 21	18 33	18 52	□ ☉ ♃
22	W		11 41	2♌40	15 29	Cold and wet.
23	T	Sun sets 5 3	morn	16 52	11 12	
24	F		1 2	1♍8	6 17	
25	S	K.Geo.III.A.	2 22	15 25	1 n 1	Crispin
26	E	☉ S. aft. Tr.	3 42	29 38	4 s 17	K. Geo. III. pro.
27	M		5 2	13♎43	9 19	△ ☉ ♄
28	T	St. Sim. & Jud.	6 21	27 36	13 47	△ ♄ ♅
29	W		☽ sets	11♍12	17 27	
30	T	Sun rises 7 10	5 a 22	24 3	20 6	Temperate.
31	F	Sun sets 4 48	6 7	7♐28	21 38	

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M D	Saturn Long.	Decl.	Jupiter Long.	Decl.	Mars Long.	Decl.	Venus Long.	Decl.
1	♑ 22 11	s 25	26 ♎ 47	20 n 59	3 ♏ 30	12 s 43	23 ♌ 47	11 n 26
7	5 4 11	32	27 31	20 51	7 38	14 9	28 57	10 25
13	4 47 11	37	28 11	20 44	11 47	15 32	4 ♍ 30	9 6
19	4 35 11	41	28 44	20 38	15 59	16 51	10 22	7 31
25	4 25 11	44	29 11	20 33	20 13	18 5	16 31	5 40

M D	Sun's Longit.	Sun's Declin.	Observations
1	8 ♎ 57	3 s 33	Pole Star south at 0 h. 17 min. morning
2	9 56	3 56	Seven Stars South at 2 h. 59 min. morning
3	10 55	4 20	Saturn sets at 2 h. 56 min. morning
4	11 54	4 43	Mars sets at 6 h. 23 min. afternoon
E	12 54	5 6	
6	13 53	5 29	Day is 11 hours 12 minutes long
7	14 52	5 52	Day is decreased 5 h. 23 min.
8	15 52	6 15	Day breaks at 4 h. 33 min.
9	16 51	6 38	Twilight ends at 7 h. 25 min.
10	17 50	7 0	
11	18 50	7 23	Saturn sets at 2 h. 25 min. morning
E	19 49	7 46	Mars sets at 6 h. 4 min. afternoon
13	20 49	8 8	Day is 10 hours 44 minutes long
14	21 48	8 30	
15	22 48	8 53	Pole Star South at 11 h. 25 min. afternoon
16	23 47	9 15	Seven Stars south at 2 h. 7 min. morning
17	24 47	9 37	Day is decreased 6 h. 4 min.
18	25 47	9 58	Day breaks at 4 h. 53 min.
E	26 47	10 20	
20	27 46	10 42	Saturn sets at 1 h. 50 min. morning
21	28 46	11 3	Mars sets at 5 h. 43 min. afternoon
22	29 46	11 24	Sun enters ♏ 39 min. past 5 afternoon
23	0 ♏ 46	11 45	
24	1 46	12 6	Day is 10 h. 2 minutes long
25	2 46	12 27	Day is decreased 6 hours 31 minutes
E	3 46	12 47	Day breaks 5 h. 8 min.
27	4 46	13 7	
28	5 46	13 27	Twilight ends at 6 h. 48 min.
29	6 46	13 47	Day is 9 hours 40 minutes long
30	7 46	14 7	Day is decreased 6 hours 50 minutes
31	8 46	14 26	

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Lunations	M D	Jupiter rises	Venus rises
First Quarter the 5th day, at 1 midnight	1	9 a 38	am 50
Full Moon the 13th day, at 6 evening	7	9 16	3 2
Last Quarter the 20th day, at 2 aftern.	13	8 52	3 15
New Moon 27 day at 6 evening	19	8 27	3 28
	25	8 0	3 41

M D	W D	Holy-Days ☉ rises & sets	☽ rises & sets	Moon's Longit	Moon's Declin.	Aspects and Weather
1	S	All Saints	6 a 59	20 ♐ 7	22 s 0	Seasonable.
2	L	24 S.aft.Trin.	7 58	2♑28	21 16	Fr Ed.b. All S.
3	M	Fr. of Gunp. b.	8 59	14 36	19 33	□ ♄ ☿
4	T		10 3	26 33	17 0	☌ ♂ ♀
5	W	Powder Plot	11 9	8♒26	13 46	
6	T	Leonard	morn	20 17	10 0	Mich. T. beg.
7	F	D. of Cumb. b.	0 13	2♓14	5 49	△ ♃ ♂, ✱ ♃ ♀
8	S	Prs. Anne S. to.	1 18	14 19	1 s 22	
9	L	25 S.aft.Trin.	2 27	26 38	3 n 13	Stormy, cold,
10	M	Ld Mayor's d.	3 36	9♈13	7 47	and moist.
11	T	St. Martin	4 47	22 6	12 7	
12	W		5 59	5♉19	15 59	
13	T	Britius	☽ rises	18 50	19 6	□ ♄ ♂, ✱ ♀ ☿
14	F		4 a 55	2♊38	21 11	Seasonable.
15	S	Machutus	5 51	16 39	21 59	☌ ♂ ☿
16	L	26 S.aft.Trin.	6 56	0♋50	21 24	□ ♄ ☿
17	M	Hugh	8 7	15 6	19 26	
18	T		9 30	29 25	16 14	Moderate.
19	W	Sun rises 7 43	10 49	13♌42	12 6	
20	T	Edmund	morn	27 55	7 19	△ ☉ ♃
21	F		0 9	12♍2	2 n 10	☌ ☉ ☿
22	S	Cecilia	1 26	26 0	3 s 1	Old Martinm. d.
23	L	27 S.aft.Trin.	2 38	9♎48	8 1	St. Clement.
24	M	Sun sets 4 10	4 1	23 25	12 33	
25	T	D. of Glou. b.	5 15	6♏50	16 23	Cath. □ ☉ ♄
26	W		6 28	20 1	19 19	
27	T	Sun rises 7 53	☽ sets	2 ♐ 58	21 13	Windy.
28	F	Mic. Ter. ends	4 a 43	15 41	21 58	
29	S	Sun sets 4 4	5 38	28 10	21 36	
30	L	Advent S.	6 39	10♑26	20 13	St. Andrew.

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M D	Saturn Long.	Decl.	Jupiter Long.	Decl.	Mars Long.	Decl.	Venus Long.	Decl.
1	11♓18	11 s 45	29♋35	20 n 30	25♍12	19 s 25	23♍56	3 n 16
7	11 17	11 45	29 47	20 28	29 31	20 27	0♎30	1 1
13	11 19	11 44	29 54	20 28	3♐51	21 23	7 13	1 s 21
19	11 25	11 41	29 53	20 29	8 14	22 12	14 4	3 47
25	11 35	11 36	29 44	20 32	12 39	22 54	21 1	6 17

M D	Sun's Longit.	Sun's Declin.	Observations
1	9♍46	14 s 45	Pole Star ſouth at 10 h. 21 m. afternoon
E	10 46	15 4	Seven Stars ſouth at 1 h. 3 min. morning
3	11 47	15 23	Saturn ſets at 0 h. 54 min. morning
4	12 47	15 42	Mars ſets at 5 h. 14 min. afternoon
5	13 47	16 0	
6	14 48	16 18	Day is 9 h. 16 min. long
7	15 48	16 35	Day is decreaſed 7 h. 19 min.
8	16 48	16 53	Day breaks at 5 h. 26 min.
E	17 49	17 10	Twilight ends at 6 h. 32 min.
10	18 49	17 26	
11	19 49	17 43	Saturn ſets at 0 h. 21 min. morning
12	20 50	17 59	Mars ſets at 4 h. 57 min. afternoon
13	21 51	18 15	Day is 8 h. 52 min. long
14	22 51	18 30	
15	23 51	18 45	Pole Star ſouth at 9 h. 24 min. afternoon
E	24 52	19 0	Seven Stars ſouth at 0 h. 6 min. morning
17	25 53	19 15	Day is decreaſed 6 h. 5 min.
18	26 53	19 29	Day breaks at 5 h. 40 min.
19	27 54	19 43	
20	28 55	19 56	Saturn ſets at 11 h. 45 min. afternoon
21	29 55	20 9	☉ enters ♐ 52 m. paſt 1 afternoon
22	0♐56	20 22	Mars ſets at 4 h. 38 min. afternoon
E	1 57	20 34	Twilight ends at 6 h. 14 min.
24	2 58	20 46	
25	3 58	20 58	Day is 8 h. 18 min. long.
26	4 59	21 9	Day is decreaſed 6 h. 40 min.
27	6 0	21 20	Day breaks at 5 h. 50 min.
28	7 1	21 30	Twilight ends at 6 h. 14 min.
29	3 2	21 40	
E	9 4	21 50	

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Lunations

First quarter the 5th day, at 9 night
Full moon the 13th day, at 6 morning
Laſt quarter the 19th day, at 10 night
New moon the 27th day, at noon

M D	Jupiter riſes	Venus riſes
1	7a 33	3 55
7	7 4	4 9
13	6 35	4 22
19	6 6	4 36
25	5 36	4 51

M D	W D	Holy-Days ☉ riſes & ſets	☽ riſes & ſets	Moon's Longit.	Moon's Declin.	Aſpects and Weather
1	M		7 a 45	22♑31	17 s 58	Snow or ſleet,
2	T	Sun riſes 7 59	8 49	4♒29	14 52	□ ♃ ♀
3	W		9 53	16 21	11 15	with rough
4	T	Sun ſets 4 0	10 58	28 12	7 13	winds
5	F		morn	10♓ 7	2 s 53	
6	S	Nicholas	0 3	22 10	1 n 36	Cold ſharp air
7	E	2 S. in Adv.	1 9	4♈27	6 6	△ ♄ ♀
8	M	Concep. V. M.	2 18	17 0	10 28	
9	T		3 27	29 55	14 30	
10	W	Sun riſes 8 5	4 40	13♉13	17 56	△ ♃ ☿
11	T	Sun ſets 3 55	5 53	26 55	20 28	
12	F		7 2	11♊ 1	21 50	Stormy and tur-
13	S	Lucy.	☽ riſes	25 26	21 48	bulent weather
14	E	3 S. in Adv.	5 a 41	10♋ 6	20 16	
15	M		7 2	24 53	17 23	
16	T	O Sapientia	8 23	9♌40	13 22	Camb. T. ends
17	W	Ember Week	9 47	24 19	8 36	Oxford T. ends
18	T		11 6	8♍46	3 n 25	
19	F	Sun riſes 8 8	morn	22 57	1 s 51	More moderate,
20	S		0 23	6♎50	6 56	
21	E	4 S. in Adv.	1 38	20 24	11 33	St. Tho. ſhort d.
22	M		2 53	3♏41	15 32	
23	T	Sun ſets 3 52	4 5	16 43	18 40	but cloudy and
24	W		5 12	29 30	20 48	
25	T	Chriſt. D.	6 16	12♐ 6	21 53	△ ♃ ♀
26	F	St. St phen	7 7	24 30	21 51	* ♄ ♂
27	S	St. John	☽ ſets	6♑46	20 46	* ☉ ♄, ☌ ☉ ♂
28	E	1 S. aft. Chr.	5 a 16	18 58	18 44	Innocents
29	M	Sun riſes 8 6	6 21	0♒53	15 54	
30	T	Sun ſets 3 55	7 27	12 48	12 27	dark at the end.
31	W	Silveſter	8 32	24 40	8 32	

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M	Saturn		Jupiter		Mars		Venus	
D	Long.	Decl.	Long.	Decl.	Long.	Dec.	Long.	Decl.
1	4♓48	11 s 30	29♍29	20 n 36	17♐ 6	23 s 27	28♎ 4	8 s 45
7	5 5	11 23	29 7	20 42	21 34	23 52	5♏11	11 9
13	5 25	11 15	28 39	20 48	26 4	24 7	12 21	13 27
19	5 49	11 6	28 5	20 50	0♑ 37	24 14	19 35	15 36
25	6 15	10 56	27 26	21 5	5 11	24 11	26 52	17 32

M	Sun's	Sun's	Observations
D	Longit.	Declin.	
1	10♐ 4	21 s 59	Pole Star south at 8 h. 13 min. afternoon
2	11 5	22 8	Seven Stars south at 10 h. 55 m. afternoon
3	12 6	22 16	Saturn sets at 10 h. 50 min. afternoon
4	13 7	22 24	Mars sets at 4 h. 17 min. afternoon
5	14 8	22 31	
6	15 9	22 38	Day is 7 hours 56 minutes long
E	16 10	22 45	Day is decreased 8 hours 40 minutes
8	17 11	22 51	Day breaks at 5 hours 57 minutes
9	18 12	22 56	Twilight ends at 6 hours 2 minutes
10	19 13	23 2	
11	20 14	23 6	Saturn sets at 10 h. 17 min. afternoon
12	21 15	23 11	Mars sets at 4 h. 5 min. afternoon
13	22 14	23 14	Day is 7 h. 48 min. long
E	23 17	23 18	
15	24 18	23 21	Pole Star south at 7 h. 11 m. afternoon
16	25 19	23 23	Seven Stars south at 9 h. 53 m. afternoon
17	26 20	23 25	Day is decreased 8 hours 49 minutes
18	27 21	23 26	Day breaks at 6 h. 1 min.
19	28 23	23 27	
20	29 24	23 28	Saturn sets at 9 h. 41 min. afternoon
E	0♑25	23 28	Sun enters ♑ 14 min. past 2 morning
22	1 26	23 27	Mars sets at 3 h. 52 min. afternoon
23	2 27	23 27	Twilight ends at 5 h. 59 min.
24	3 28	23 25	
25	4 30	23 23	Day is 7 h. 46 min. long
26	5 31	23 21	Day is increased 2 minutes
27	6 32	23 18	Day breaks at 5 h. 59 min.
E	7 33	23 15	
29	8 35	23 11	Twilight ends at 6 h. 1 min.
30	9 36	23 7	Day is 7 hours 50 min. long
31	10 37	23 2	Day is increased 7 minutes

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Days	Long.	Declin.	Long.	Declin.	Long.	Declin.
	January		February		March	
1	18 ♑ 57	21 s 45	4 ♒ 41	21 s 1	20 ♓ 52	13 s 0
4	22 44	22 26	9 43	19 49	1 ♈ 38	1 n 30
7	26 44	23 1	14 53	18 25	5 42	3 45
10	0 ♉ 53	23 27	20 9	16 44	8 48	5 34
13	5 12	23 44	25 33	14 51	10 46	6 52
16	9 35	23 50	1 ♓ 3	12 46	11 31	7 33
19	14 5	23 45	6 39	10 28	11 2	7 34
22	18 41	23 28	12 19	8 0	9 32	6 56
25	23 22	22 59	17 56	5 24	7 19	5 47
28	28 9	22 17	23 24	2 45	4 48	4 18
	April		May		June	
1	1 ♈ 47	2 n 12	16 ♈ 12	3 n 40	13 ♊ 16	23 n 19
4	0 10	0 49	20 20	5 17	19 49	24 23
7	29 ♓ 21	0 s 14	24 47	7 5	26 13	25 4
10	29 19	0 55	29 33	9 0	2 ♋ 22	25 19
13	0 ♈ 1	1 13	4 ♉ 33	11 3	8 13	25 12
16	1 25	1 9	10 4	13 10	13 44	24 44
19	3 26	0 43	15 44	15 18	18 54	24 0
22	5 59	0 0	21 44	17 25	23 43	23 2
25	8 59	0 n 59	28 0	19 27	28 11	21 55
28	12 24	2 13	4 ♊ 29	21 18	2 ♌ 16	20 49
	July		August		September	
1	5 ♌ 58	19 n 20	12 ♌ 2	12 n 30	27 ♌ 21	13 n 51
4	9 16	17 58	9 44	13 19	2 ♍ 58	12 3
7	12 7	16 38	7 46	14 17	8 43	9 59
10	14 28	15 21	6 29	15 17	14 ♎ 26	7 45
13	16 15	14 9	6 9	16 9	20 5	5 26
16	17 24	13 10	6 54	16 49	25 35	3 4
19	17 53	12 23	8 47	17 10	0 ♏ 58	0 42
22	17 37	11 51	11 44	17 8	6 12	1 39
25	16 37	11 39	15 38	16 40	11 17	3 57
28	14 56	11 48	20 18	15 45	16 14	6 10
	October		November		December	
1	21 ♎ 4	8 s 20	3 ♐ 3	23 s 33	22 ♑ 7	15 s 45
4	25 46	10 24	5 36	23 59	23 8	16 1
7	0 ♍ 22	12 23	7 26	24 8	25 18	16 44
10	4 51	14 15	8 16	23 55	28 14	17 41
13	9 13	16 0	7 47	23 16	1 ♑ 42	18 45
16	13 28	17 37	5 46	22 8	5 D 31	19 51
19	17 36	19 7	2 23	20 32	9 36	20 54
22	21 34	20 27	28 ♑ 19	18 42	13 49	21 51
25	25 20	21 37	24 45	17 4	18 9	22 41
28	28 52	22 35	22 3	16 2	22 35	23 22

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A Compendious Chronology of memorable Things since the Creation to this present Year.

A.P.J.	*before Christ.*		*Years since.*
710	4004	The Creation of the World	5792
1766	2948	*Noah* born	4736
2366	2348	*Noah*'s Flood began	4136
2481	2233	The *Babylonian* Monarchy eſtabliſhed	4021
2718	1996	*Abraham* born	3784
2986	1728	*Joſeph* ſold into *Egypt*	3516
3143	1571	*Moſes* born	3359
3223	1491	The *Iſraelites* Departure out of *Egypt*	3279
3530	1184	*Troy* taken and deſtroyed by the *Greeks*	2972
3710	1004	*Solomon*'s Temple built and dedicated	2791
4126	588	*Jeruſalem* and the Temple deſtroyed	2376
4176	538	*Daniel* delivered from the Den of Lions	2326
4198	516	The Temple of *Jeruſalem* rebuilt	2304
4391	323	The Death of *Alexander the Great*	2111
4710	4	The true Year of *Chriſt*'s Birth	1792
4714	0	The vulgar Year of *Chriſt*'s Birth	1788
A.D.			
33		The Paſſion and Reſurrection of *Jeſus Chriſt*	1755
70		*Jeruſalem* and the Temple deſtroyed by *Titus*	1718
100		St. *John*, the laſt of the Apoſtles, dies *Dec.* 20.	1688
313		Chriſtianity triumphs under *Conſtantine*	1475
476		*Auguſtulus*, the laſt *Roman* Emperor, depoſed	1312
606		The wicked *Phocas* makes Pope *Boniface* Head of the Church	1182
608		*Mahomet* broaches his Impoſture at *Mecca*	1180
872		*Italy* and *Rome* plundered by the *Saracens*	916
1012		*Swain* King of *Denmark* conquers *England*	776
1066		*William* Duke of *Normandy* conquers *England*	722
1110		Arts and Sciences taught in *Cambridge*	678
1119		The firſt War between the *French* and *Engliſh*	569
1300		The Mariners Compaſs invented	488
1330		The *Canaries* diſcovered by an *Engliſh* Ship	458
1380		Gunpowder and the Uſe of Guns firſt found out	408
1453		*Conſtantinople* taken from the *Chriſtians*	335

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A.D.		Years since.
1463	The *Persians* conquered by *Tamerlane*	325
1500	*Rome* plundered by the Duke of *Bourbon*	288
1517	*Martin Luther* first disputed against Popery	270
1536	*England* separated from the Church of *Rome*	252
1588	The *Spanish Armada* defeated by the *English*	198
1603	Q. *Eliz.* dies *March* 24. and K. *James* I. began	185
1604	Died of the Plague in *London*, in 2 Years, 68,596	184
1605	Gunpowder Treason, *Nov.* 5.	183
1613	The New-River Water brought to *London*	175
1618	The excellent Sir *Walter Ralcigh* beheaded	170
1625	K. *James* I. died, King *Charles* I. began, *Mar.* 27.	163
1625	35,417 Persons died of the Plague in *London*	163
1641	The cruel *Irish* Massacre began, *October* 23.	147
1643	*Burleigh-House* stormed by *Cromwel*, *July* 24.	145
1649	K. *Charles* I. beheaded, *January* 30.	139
1658	*Oliver Cromwell* died.	130
1660	K. *Charles* II. restored, *May* 29.	128
1665	68,586 Persons died of the Plague in *London*	123
1666	*London* burnt, and a great Sea-Fight with the *Dutch*	122
1672	War declared against the *Dutch*, *March* 17.	116
1674	A great Snow for 11 Days together	114
1675	The Town of *Northampton* burnt, *Sept.* 3.	113
1680	A great and splendid Comet appeared	108
1684	The great Frost that held 13 Weeks	104
1685	K. *Charles* II. died, *Feb.* 6. and K. *James* II. began	103
1685	The Duke of *Monmouth* beheaded, *July* 15.	103
1688	Seven Bishops sent to the *Tower*, *June* 8.	100
1688	K. *James* II. abdicated, *December* 12.	100
1689	K. *William* and Q. *Mary* crowned, *April* 11.	99
1692	The *French* Fleet entirely defeated by the *English*	96
1698	*Whitehall* Palace destroyed by Fire.	90
1702	K. *William* died, *March* 8, and Q. *Anne* began	86
1702	Q. *Anne* proclaimed War against *France*, *May* 4.	86
1703	A great and terrible Wind, *Nov.* 26 and 27.	85
1704	*Gibraltar* taken by the *English*	84
1707	*England* and *Scotland* united, *May* 1.	81
1710	Riots and great Disturbances in *England*.	78
1714	Q. *Anne* died *August* 1. and K. *George* I. began	74

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A.D.		Years since.
1715	A Rebellion in *Scotland* and *Lancashire* suppressed	73
1716	A great Frost in the Beginning of this Year	72
1718	The *Spanish* Fleet destroyed by Admiral *Byng*.	70
1719	A surprizing Meteor seen, *March* 19, at 8 at Night	69
1719	Mr. *Flamsteed*, a celebrated Astronomer died *Dec.* 31.	69
1727	The incomparable Sir *Isaac Newton*, died *Mar.* 20.	61
1727	K. *George* I. died, *June* 11, and K. *George* II. began	61
1736	The Prince and Princess of *Wales* married, *Ap.* 27.	52
1739	Letters of Marque published in *London* against the *Spaniards*, *July* 16.	49
1739	War declared by *Great Britain* against *Spain*	49
1739	*Porto-Bello* taken and destroyed by Admiral *Vernon*.	49
1740	A very severe Frost from *Dec.* 25, to *Feb.* 27	48
1742	A Comet appeared from *Feb.* 18, to *March* 14.	46
1743	A splendid Comet appeared from *December* 23, to *February* 18, in ♈	45
1744	*March* 4. *France* declared War against *England*; and *March* 31, *England* declared War against *France*.	44
1745	*Cape Breton* taken from the *French*, *June* 16.	43
1746	The *Scotch* Rebels defeated by the Duke of *Cumberland*, at *Culloden*, near *Inverness*, *April* 16.	42
1748	A General Peace signed *October* 7.	40
1749	*Cape Breton* restored to the *French*.	39
1750	The *British* Fishery established.	38
1751	The Prince of *Wales* died *March* 20.	37
1752	The Date and Calendar altered	36
1755	*Lisbon* destroyed by an Earthquake, *Nov.* 1.	33
1756	*England* declared War against *France*, *May* 18.	32
1756	The Island *Minorca* taken by the *French*, *June* 27.	32
1757	Count *Brown* defeated by the King of *Prussia* near *Prague*, *May* 6.	31
1757	The King of *Prussia* defeated by Count *Daun* at *Collin*, *June* 18.	31
1758	The *French* defeat, at *Crevelt* by P. *Ferdinand*, *June* 23	30
1758	Lord *Howe* slain, *July* 6, and Gen. *Abercrombie* repulsed at *Ticonderoga*, *July* 8.	30
1758	*Cape Breton* taken by the *English*, *July* 26.	30

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A.D.		Years since.
1758	The *Ruſſians* defeated at *Zorndorff* by the King of *Pruſſia*, *Sept.* 25.	30
1759	The Iſland of *Guadalupe* taken by Gen. *Barrington* and Commodore *Moore*, *May* 1.	29
1759	The *French* defeat. at *Minden* by P. *Ferdinand*, *Aug.* 1.	29
1759	The King of *Pruſſia* defeated at *Cunnerſdorff* by the Count *de Soltikoff*, *Auguſt* 12.	29
1759	Gen. *Wolfe* ſlain, though victorious, *Sept.* 13, and *Quebec* taken *Sept.* 18, by Gen. *Townſhend*.	29
1760	*Montreal* taken by Gen. *Amherſt*, *Sept.* 8.	28
1760	K. *Geo.* II. died *Oct.* 25, and *Geo.* III. ſucceeded.	28
1761	*Pondicherry* taken by Col. *Coote*, *Jan.* 15.	27
1761	K. *George* III. married Q. *Charlotte*, *Sept.* 8.	27
1761	K. *George* III. crowned, *Sept.* 22.	27
1762	The Iſland of *Martinico* taken by Gen. *Monckton* and Adm. *Rodney*, *Feb.* 14.	26
1762	*George* Prince of *Wales* born, *Auguſt* 12.	26
1762	The *Havannah* taken by Lord *Albemarle* and Sir *George Pocock*, *Auguſt* 12.	26
1763	A general Peace in all *Europe*.	25
1763	Pr. *Frederick*, Biſhop of *Oſnaburgh*, born *Aug.* 16.	25
1765	Prince *William-Henry* born *Auguſt* 21.	23
1766	Princeſs *Charlotte-Auguſta-Matilda* born *Sept.* 29.	22
1767	Prince *Edward* born *Nov.* 2.	21
1768	Princeſs *Auguſta-Sophia* born *Nov.* 8.	20
1770	Princeſs *Elizabeth* born *May* 22.	18
1771	Prince *Erneſt-Auguſtus* born *June* 5.	17
1772	*Swedes* reſign their Liberties to the King.	16
1773	Prince *Auguſtus-Frederick* born *Jan.* 27.	15
1773	The Light Gold recoined.	15
1774	Prince *Adolphus Frederick* born *Feb.* 24.	14
1775	War commenced againſt the *North-Americans*.	13
1776	Princeſs *Mary* born *April* 25.	12
1776	The *Americans* declare themſelves independent.	12
1777	Princeſs *Sophia* born *Nov.* 3.	11
1778	The *French* ſign a Treaty with the *Americans*.	10
1778	War begun againſt the *French*.	10
1779	War commenced againſt the *Spaniards*.	9
1780	War againſt the *Dutch* begun.	8
1783	A general Peace.	5
1783	Princeſs *Amelia* born	5

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Equation of Time to the nearest Minute.

Day	Jan sub	Feb sub	Mar sub	Apr sub	May add	June add	July sub	Aug sub	Sept add	Oct add	Nov add	Dec add	Day
	min	m	m	m	m	m	m	m	m	m	m	m	
1	4	14	12	4	3	3	3	6	0	11	16	10	1
2	4	14	12	3	3	2	4	6	1	11	16	10	2
3	5	14	12	3	3	2	4	6	1	11	16	9	3
4	5	14	12	3	4	2	4	6	1	11	16	9	4
5	0	14	12	2	4	2	4	6	2	12	16	9	5
6	6	15	11	2	4	2	4	5	2	12	16	8	6
7	7	15	11	2	4	1	5	5	2	12	16	8	7
8	7	15	11	2	4	1	5	5	3	13	16	7	8
9	8	15	11	1	4	1	5	5	3	13	16	7	9
10	8	15	10	1	4	1	5	5	3	13	16	6	10
11	8	15	10	1	4	1	5	5	4	13	16	6	11
12	9	15	10	1	4	0	5	5	4	14	15	5	12
13	9	15	9	0	4	0	5	4	4	14	15	5	13
14	10	15	9	0	4	0	5	4	5	14	15	4	14
15	10	15	9	add	4	sub	6	4	5	14	15	4	15
16	10	14	9	0	4	0	6	4	6	15	15	4	16
17	11	14	8	1	4	1	6	4	6	15	15	3	17
18	11	14	8	1	4	1	6	3	6	15	14	3	18
19	11	14	8	1	4	1	6	3	7	15	14	2	19
20	12	14	7	1	4	1	6	3	7	15	14	2	20
21	12	14	7	2	4	1	6	3	7	15	14	1	21
22	12	14	7	2	4	2	6	2	8	16	13	1	22
23	12	14	6	2	4	2	6	2	8	16	13	0	23
24	13	14	6	2	4	2	6	2	8	16	13	sub	24
25	13	13	6	2	3	2	6	2	9	16	12	1	25
26	13	13	6	3	3	2	6	1	9	16	12	1	26
27	13	13	5	3	3	3	6	1	9	16	12	2	27
28	13	13	5	3	3	3	6	1	10	16	11	2	28
29	14	13	5	3	3	3	6	0	10	16	11	3	29
30	14		4	3	3	3	6	0	10	16	11	3	30
31	14		4		3		6	add		16		4	31

If the equal or clock time be given, add or subtract the tabular numbers to or from it, as directed in the table; the sum or difference will be the apparent or solar time. But do the contrary to reduce the apparent to equal time.

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The Eclipses of Jupiter's

January				February				March				April			
d	h	m	f	d	h	m	f	d	h	m	f	d	h	m	f
Emerſions				Emerſions				Emerſions				Emerſions			
2	13	7	41	1	15	6	34	2	17	18	11	1	19	37	17
4	7	35	30	3	9	35	8	4	11	47	26	3	14	6	40
6	2	3	24	5	4	3	46	6	6	16	42	5	8	36	2
7	20	31	18	6	22	32	26	8	0	45	59	7	3	5	23
9	14	59	14	8	17	1	9	9	19	15	17	8	21	34	43
11	9	27	12	10	11	29	55	11	13	44	7	10	16	4	3
13	3	55	15	12	5	58	43	13	8	13	58	12	10	33	22
14	22	23	18	14	0	27	35	15	2	43	20	14	5	2	39
16	16	51	26	15	18	56	28	16	21	12	43	15	23	31	56
18	11	19	36	17	13	25	25	18	15	2	5	17	18	1	11
20	5	47	47	19	7	54	26	20	10	11	29	19	12	30	25
22	0	16	1	21	2	23	25	22	4	40	53	21	6	59	37
23	18	44	20	22	20	52	30	23	23	10	17	23	1	28	48
25	13	12	43	24	15	21	32	25	17	39	41	24	19	57	57
27	7	41	6	26	9	50	41	27	12	9	6	26	14	27	6
29	2	9	35	28	4	19	48	29	6	38	29	28	8	56	12
30	20	38	0	29	22	48	59	31	1	7	54	30	3	25	16

May				June	July	August	
Immerſions						Immerſions	
1	21	54	18			1	20 25 53
3	16	23	17			3	14 54 39
5	10	52	15			5	9 23 25
7	5	21	12	The Eclipſes of *Jupiter*'s Satellites will not be viſible this Month, *Jupiter* being too near the Sun.	The Eclipſes of *Jupiter*'s Satellites will not be viſible this Month, *Jupiter* being too near the Sun.	7	3 52 12
8	23	50	6			8	22 21 1
10	18	18	59			10	16 49 49
12	12	47	50			12	11 18 42
14	7	16	38			14	5 47 34
16	1	45	26			16	0 16 28
17	20	14	10			17	18 45 24
19	14	42	54			19	13 14 20
21	9	11	36			21	7 43 17
23	3	40	14			23	2 12 15
24	22	8	51			24	20 41 15
26	16	37	29			26	15 10 16
28	11	6	2			28	9 39 18
30	5	34	35			30	4 8 20
						31	22 37 22

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First Satellite.

September				October				November				December			
d	h	m	f	d	h	m	f	d	h	m	f	d	h	m	f
Immerſions				Immerſions				Immerſions				Immerſions			
2	17	6	27	1	0	51	14	1	21	27	44	1	23	23	36
4	11	35	32	2	19	20	10	3	15	56	3	3	17	51	18
6	6	4	36	4	13	49	6	5	10	24	20	5	12	18	49
8	0	33	40	6	8	18	1	7	4	52	35	7	6	46	27
9	19	2	45	8	2	46	55	8	23	20	48	9	1	14	0
11	13	31	50	9	21	15	46	10	17	48	57	10	19	41	35
13	3	0	55	11	15	44	37	12	12	17	5	12	14	9	9
15	2	29	59	13	10	13	23	14	6	45	9	14	8	36	42
16	20	59	5	15	4	42	9	16	1	13	11	16	3	4	16
18	15	28	8	16	23	10	52	17	19	41	11	17	21	31	48
20	9	57	11	18	17	39	34	19	14	9	7	19	15	59	20
22	4	26	14	20	12	8	13	21	8	37	1	21	10	26	51
23	22	55	16	22	6	36	50	23	3	4	52	23	4	54	23
25	17	24	17	24	1	5	25	24	21	32	40	24	23	21	54
27	11	53	17	25	19	33	58	26	16	0	27	26	17	49	27
29	6	22	17	27	14	2	27	28	10	28	10	28	12	17	2
				29	8	30	56	30	4	55	52	30	6	44	34
				31	2	59	21								

To illuſtrate the Uſe of the preceding Table by an Example.

Suppoſe on the 28th Day of December this Year, the Time of the Immerſion of Jupiter's firſt Satellite be obſerved by a Teleſcope in an unknown Meridian, to happen at 14h. 5 min. 22 ſec. at Night; I find by the Table, that the Time of this Immerſion will happen at the Britiſh Obſervatory at 12 h. 17 min. 2 ſec. the ſame Day: The Difference of the Times is 1 h. 48 min. 20 ſec. which being converted into Degrees and Minutes of the Equator, at the Rate of 15 Degrees per Hour, will make 27 deg. 5 min. the Longitude of the Place of Obſervation to the Eaſt; becauſe the Time is more than that at the Britiſh Obſervatory.

Operation.

Immerſion obſerved	$14^h\ 5^m\ 22^s$
Immerſion at *Greenwich*	12 17 2
The Difference of Time	1 48 20
Anſwering to	27° 5′ 0″

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Many I know who peruſe my Ephemeris, look very eagerly (at the firſt cutting the Leaves) for the Eclipſes; how many upon the Whole; how many of each Luminary; how many viſible; how many inviſible; when or where they may be ſeen, &c. This, amongſt the Sons of Drollery, and the Sons of Laughter, and idle Merriment, are looked upon as a Matter which no way concerns us; and ſay with Comus,

"What have we *with theſe* to do?
"Sons of Care 'twas made for you."

The Worſhippers of *Plutus*, though they are properly the Sons of Care, will join the others in this. What have you to do with the Sun and the Moon? ſay they: if the one lights you by Day, and the other by Night, they perform the Taſk they were lighted up for; and that is ſufficient for us. So far both Parties concur in Sentiment: but our Adorers of Plutus run a Bow's-ſhot further, and moralize in manner following: The Sun, the Moon, and the wandering Stars, run their Race with Diligence, and perform their Buſineſs without Intermiſſion. In this, let us copy them, and perform the Taſk allotted to us in the various Departments of Life with the greateſt Diligence and Alacrity; ſo ſhall our old Age be comfortable, and our Offspring bleſs our Memory. As to the Eclipſes, it is no Matter to us when or how they happen; it is enough for us to know that they do happen when it pleaſes God; and that is ſufficient for any reaſonable Chriſtian; but we may, however, take this Hint, *viz.* If they, in their cœleſtial Courſes are eclipſed, how cautious ought we to be in our terreſtrial Race, leſt we be eclipſed too; every trifling Loſs is a Tranſit into our Fortunes; but Bankruptcy a total Eclipſe.

There is certainly a great deal of Morality and ſound Reaſoning in the above Reflections. Yet if even in this Life, Men only came into the World to get Money; as Commerce depends upon Navigation, Aſtronomy is their grand Aſſiſtant, and Primum Mobile.

But when we conſider Man as a Being poſſeſſed with an Underſtanding far ſuperior to theſe groveling Thoughts, of which, even a Swine, had he the Faculty of Speech, would tell you that was the height of his Ambition; Man, I repeat the Word; he who is made Lord of the Creation in this terreſtrial Globe, and is Heir (if his ill Conduct forbids it not) to the Manſions of eternal Felicity; ſhall he, I ſay, miſs the

Line

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Line which the Finger of God has pointed out, when he ſaid, by the inſpired Penman, *The Heavens declare the Glory of God; and the Firmament ſheweth his handy Works.*

To lay in Store for future Want, the Ant and the Bee are ſufficient Leſſons. No Stars direct them to be (to our ſhame) Patterns to us. But the Lords of the Creation were born to higher Attainments, and more noble Aims, than the periſhable and uncertain Commodities of this tranſitory Life, which, if they leave not us on this Side the Grave, we muſt ſtep into that and leave them. The Wiſe never profeſſed any particular Value for ſuch fleeting Enjoyments; and if you aſk the Man after God's own Heart, how he would chuſe to employ his Studies; he will tell you in theſe Words, vide Pſal. viii. 3. 'I will behold the Heavens, even the Works of thy Fingers, the Moon and the Stars which thou haſt ordained.' Another Evidence very applicable to the preſent Purpoſe is deducible from the Book of Wiſdom, chap. vii. ver. 15, 19. 'God hath granted me to ſpeak according to my Mind, and to judge worthily of the Things that are given me; for he is the Leader unto Wiſdom, and the Director of the Wiſe: How the Times alter, the Change of the Seaſons, the Courſe of the Year, and the Courſe of the Stars!' which is perfectly conformable to the Dictates of the Apoſtle: vide Ja. i. 17. "Every good and perfect Gift is from above, and cometh down from the Father of Lights, with whom is no Variableneſs, neither Shadow of turning.' Having, however, ſaid ſufficient, I think to convince any reaſonable Man of the high Value of that noble Science Aſtronomy, I proceed to the Eclipſes, of which this Year affords but Two, and both Solar; the firſt viſible, and the Second inviſible, as follows:

The Firſt is a viſible Eclipſe of the Sun on Wedneſday, June 4, in the Morning.

Beginning	7^h	24^m
Middle	8	11
End	9	0

Dig. eclipſed 3° 59′ on the ☉'s ſouthern Limb.

The Moon makes her Firſt Impreſſion on the Solar Diſk at 96° from the Sun's Vertex on the right Hand.

The ſecond will be an Eclipſe of the Sun, but inviſible to us, and will happen on the 27th Nov. at 6^h 10′ in Long. 6° 16′.

☽'s

☽'s Lat. 9'. The ☉ will be centrally eclipsed on the Meridian, at 6h 13' P. M. in Long. 93° 15', and Lat. South 30° 30'. I desist from any Astrological Predictions, as I think nothing very Material will be the Consequence of the First; and as to the Latter, it concerns not us at all. Moreover, as what might be said will come in with the general Judgment upon the Year, I here decline it, 'Nil difficilius 'quam de futuris veritatem prædicere.'

For the Year 1788, with the Configuration of the Heavens, at the Time of the Vernal Ingress of Sol into Aries, which is this Year on March the 19th, at 3 min. past 10 in the Evening; and although I cannot here help verifying of my last Latin Motto, viz.

How modest Mortals ought to be,
When treating of a future State,
And looking into Destiny
Of Things to come they dare relate.

Yet if there be Truth in Astrology, as the learned in Ages past have manifested their Assent to by their Writings; and many of the Learned in this enlightened Age, in which Astronomy justly sits as Queen of the Sciences; and who are absolutely enamoured with the bright and extensive Prospect she sets before them; by their Silence upon the Subject of Astrology, seem to give a tacit Acknowledgment that it may be so, that those who take the Pains to examine the Books of Ancient History, and the Book of the Fates, as wrote in the Heavens, and have observed, that under such and such Configurations, such and such Accidents have happened, that Man may have a shrewd Guess. And he certainly was not far off the Mark who wrote the following Distich, whatever you think of his Poetry:

'Heaven is a Book; the Stars are letters fair;
'God is the Writer; Men the Readers are.'

If these Things be so, we may with Boldness venture, according to our wonted Custom, at a short but modest Attempt, at some few Prognostical Hints, at what may probably happen in the Year of which we are Writing; wishing, at the same Time, that this Performance may be looked upon rather as an Astronomical Ephemeris, than an Astrological Almanack, considering with the ingenious Rowe:

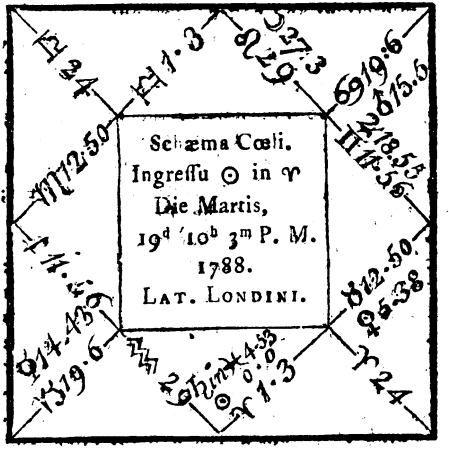
'The

The Wife and Active conquer Difficulties
By daring to attempt them: Sloth and Folly
Shiver and ſhrink at Sight of Toil and Hazard,
And make th'Impoſſibility they fear.

Wiſdom will never ſhrink at the Foreſight of any dire Event, though clad in ever ſo diſmal Array, but rather arm againſt it, or prepare to avoid it; for as the Poet Oldham juſtly obſerves,

'Wiſdom's an evenneſs of Soul,
'A ſteady Temper which no Cares controul,
'No Paſſions ruffle, no Deſires inflame;
'Still conſtant to itſelf, and ſtill the ſame.'

Purſuant to this, we ſhall, according to Cuſtom, give a Scheme of the Heavens (as they will appear to thoſe who ſtudy theſe Things in an Aſtrological Light; and from Geometrical Configurations, aſſiſted by the Obſervations of the Ancients, gather future Predictions) on the Ingreſs of the Sun into Aries; which is as follows:



Before we give Judgment of the above, it will perhaps be thought expedient by ſome, that an Obſervation or Two be drawn from the Scheme of the Heavens at the Commencement of the foregoing Quarter, in order to begin the Year with Propriety.

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Propriety. I shall just give sufficient Data with a small Hint or Two, and then leave the Sons of Urania to judge for themselves. At the commencement of the Winter Quarter 8 deg. of ♉ culminate, and 22° fere of ♌ ascend; ☉, ☿, ♀, ♄, are sub terra, as the Astrologers term it, and ♃ in ♊, and ♂ in ♐, are retrograde; ☉ has just departed from an Opposition to ♃, and ♂ is hastening to another with ♀. Whatever may be the Effect of Conjunctions, Oppositions and retrograde Motions are looked upon by Astrologers as evil Omens, signifying Contentions and much Discord among those Cities and States, of which the respective Planets are Significators; to this bear Witness, 'Ptolomy, Proclus, Piso, Ranzovius, 'Pucer, Trapezuntius, Haly Rodan, cum multis aliis.' From the Position the.. of the Heavens, and the Testimony of the Ancients, we may presume to suppose, that the Year will be ushered in with some disagreeable Circumstances; but we are not from thence to draw too hasty Conclusions. Man is at the best but a short-sighted Being; and the Ways of Providence are mysterious and past finding out.

Proceeding further in the Year we find, by the annexed Scheme, 12° 50′ of Scorpio ascending, and 29° of Leo culminates; Saturn, a dull, cold Planet, is now dipt into a cold and watery Sign; for the Positions of the Planets, they who understand these Things will see by the Scheme, and judge accordingly; while to them who are not versed in what the World calls the Jargon and Pothooks of Astrologers; all these, excepting the *ipse dixit* of the Prognosticator, are entirely thrown away. Evident it is, that in this Quarter there are some malignant Squares, in two of which our Patron Mars is concerned; but if England comes in for its Share of Business in the Bustle of the wide World, it is no new Thing. In a commercial Country, as this is, whose Sails are displayed in every Quarter of the Globe, and whose commercial Connections extend to almost every Country in the known World, it is impossible but that it must be affected in some Measure by every Thing that stabs at the general Good and Order of Things. But we will, in the present short Limits allotted for this Work, proceed still further in the Year, where, in the Scheme for the Summer Quarter, we may find Sol applying to a Conjunction with Jupiter, two royal and benign Planets, and according to their Position at this Time, which is in the

Judgment

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Judgment of Aſtrologers powerful, added to other agreeable Aſpects, give promiſing Hopes, notwithſtanding they are oppoſed by others of a malignant Kind, which, in all Probability may hinder, and perhaps take off, in ſome Part, from their ſalutary, and much to be wiſhed for Effects. In the remaining Part of the Circle of the preſent Year, I ſee nothing that particularly affects us; notwithſtanding there is ſome great Thing going forward; but the Ways of Providence are paſt finding out; and however plain the Thing may appear to ſuperior Beings, to whom it is admitted to read and comment on the cœleſtial Volume as it ſtands diſplayed in the Heavens, yet we, who at the beſt are but bad Spellers, had better be tacit than talk two much, patiently waiting till the grand Teacher Death ſhall make us wiſer. In the mean Time, let every One, who wiſhes well to his native country, fear God, honour the King, and be kindly affectioned to all around him, knowing this, 'Alius alio plura invenire poteſt, 'Nemo omnia, and Non nobis ſolum nati ſumus.'

(CONTINUED from LAST YEAR.)

The Second argues the Globe of the Moon to be full of Eminences and Depreſſions, like our Hills and Valleys, eſtimated to be ſuch by the Conjectures of the Ancients (mentioned by Plutarch, l. de Facie in Orbe Lunæ); but at preſent manifeſt to the ſight by Help of the Teleſcope; and aſcertained to Reaſon by thoſe leſſer Spots, called New Ones, varying their Situation and Magnitude, according to the divers Acceſs and Receſs of the Sun, to which their Site is always oppoſite, thence evidencing them to be the Shadows of the more elevated Parts of the Moon's Globe, emulating our Alps, Hills, and Mountains; and here and there ſurpaſſing them for Height.

The Third, namely, the Heterogencity of its Parts, was long ſince believed by the Ancients (as may appear by Plutarch l. 2. De Placit. Philoſoph. c. 25), but at this Day certainly demonſtrated by the various reflections of its Light; whence we may conclude, the Brighter and more ſplendid Parts of the Moon, to be thoſe which are more denſe, ſolid, and opacous, like our Earth, becauſe they reflect a greater Portion of Light: but the obſcurer Parts, commonly called the Ancient Spots, for as much as they reflect a leſs, and abſorb a greater Quantity of Light, to be, therefore, pellucid and diaphanous,

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diaphanous, and analogous to our Ocean, Seas, Lakes, and Rivers.

From what has been already said, we may probably infer, that the Moon is compoſed of ſolid and liquid Parts, as this our Terraqueous Globe, which we inhabit; above which it is placed in ſuch a fitting De ree of Neighbourhood, that thereby the Light and Influence of the celeſtial Bodies, eſpecially of the Sun's fervent Rays, might, by the celerity of its Motion, be ſo tempered; and, by the Aſperity and Inequality of its Superficies ſo received, and thence reflected, that they might be tranſmitted to us with leſs Incommodity than otherwiſe they would, if they were directly projected without that temperating Medium.

We are not yet to imagine, though moſt Aſtronomers, as well Ancient as Modern, conceive the Moon to be, as it were, another Earth; that it is compoſed of the ſame Sand, Clay, Stones, as this Terreſtrial Globe; or that the lunary Seas, Lakes, Pools, &c. are of the ſame Water, with our Seas, Lakes, or Pools; but haply of a quite different Matter, and to us incomprehenſible. And, therefore, as to its Nature and Subſtance, we ſhall forbear with Anaximander to determine, that its Concave Orb is full of Fire, breathing out at one Part as out of a Tunnel; or with Xenophanes, that it is a conſtipated Cloud, or with Pythagoras, that it is a ſtony Body, or with the Stoicks, that it is compoſed of Fire and Air, or as Plato will, of a terrene Compoſition; or as Anaxagoras pretends, of a Mixture cold and earthly, Darkneſs being mixed with her fiery Nature, whence ſhe is called a Star of falſe Light; or with Heraclitus, that it is another Earth inveloped within a miſty dim Cloud; or with Pliny, and ſome of the Moderns, that it is of a watery Subſtance, or as Otto de Guerrick conjectures, that it is a Globe of Ice. But ſhall leave theſe Opinions, as being dubious and uncertain, to the further Diſquiſition of the Learned. And ſeeing mention hath been made of the Maculæ, or Spots appearing in the Face or Body of the Moon; as well thoſe obvious to the bare Eye, as the others diſcernable by Help of the Teleſcope; we hold it neceſſary to make a more particular Deſcription of them.

They are diſtinguiſhed into the Ancient and the New.

The Ancient Spots, are thoſe greater and larger Spots at all Times diſcernible, without the help of a Teleſcope, reſembling large Seas, Lakes, and Bays; heretofore known and taken

Notice

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Notice of by the Ancients, of which Plutarch hath written a particular Treatise under the Title, 'De Facie in Orbe Lunæ,' translated and commented upon by Kepler, and annexed to his Somnium Lunare; and called by the Vulgar, the Man in the Moon.

The new ones, are those lesser Spots, which are not discernible but by the Help of a Telescope, which are various, differing in Magnitude, Figure, Situation, Colour, &c. observed, and with exactness described, by sundry eminent modern Astronomers: some of whom have imposed, as well upon the Old as New, distinct Names and Appellations, for the better Knowledge of them. Among whom, Langrenus in his Selenographia, hath noted them by the Names of several Persons eminent either for their Skill in the Mathematicks, or their Dignity and Honours, or their particular Friendship and Favour to him and his Studies. Hevelius, as if the Moon were another Earth, hath described and distinguished them by geographical Marks and Denominations, transferring to them the Names proper to our terrestrial Continents, Promontories, Mountains, Islands, Seas, Lakes, &c. Grimaldus hath signalized them by the Names (for the most Part) of Persons peculiarly addicted to, and eminent in the Study of Astronomy.

Whether the Moon be habitable.

That the Moon is inhabited, is by divers, as well Philosophers as Astronomers at this Day, maintained and asserted; from the Appearance of Mountains, Valleys, Woods, Lakes, Seas, and Rivers, discovered therein by Help of the Telescope, which Opinion was long since embraced by the Ancients, as Cicero testifies (Academ. Quæst. l. 4.) where he cites the Authority of Xenophanes. 'Habitari ait Xenophanes in Luna, 'Eamque esse terram multarum Urbium et Montium.' Plutarch likewise, de Placit. Philosophicis, l. ii. c. 30, reports, that the Pythagoreans affirm the Moon to be another Earth; and that she is inhabited round about, like this Earth of ours, and peopled with living Creatures, fifteen Times larger than those with us. These Inhabitants were by the Ancients called Antich ones, in Regard they dwelt in an Earth opposite to ours. And in that noted piece of his, 'De Facie in Orbe 'Lunæ,' he says, that there are Caverns in the Moon, which are

are called Penetralia Hecates, and that the upper Parts of the Moon, which always reſpect the Heavens, are the Elyſian Fields; that it is likewiſe inhabited by Genii, which dwell not always there, but ſometime deſcend to the Earth, to the Aſſiſtance or Puniſhment of Mankind, &c. Macrobius likewiſe in Somn. Scipionis, l. i. and Achilles Tatius in Iſagog. report the like of the Moon's being habitable. The Words of Macrobius are theſe, 'Lunam, Ethereum Terram Phyſici vocaverunt, et 'Habitatores ejus Lunares 'populos uncuparunt; quod ita eſſe plurimis Argumentis, 'quæ nunc longum eſt enumerare, docuerunt.' See to this Purpoſe more in Kepler, in his Aſtronomia Optica, and particularly in that marvellouſly ingenious poſtume Piece of his, called 'Somnium, ſive de Lunari Aſtronomia,' and in his learned Annotations thereupon; and on Plutarch, his Book, 'De Facie in Orbe Lunæ,' thereto annexed: nor will this ſeem an extravagant Opinion to thoſe who ſhall, upon due Conſideration, be perſuaded to admit, that the Moon enjoys as favourable an Aſpect from the Sun as this Earth of ours; though their Days and Nights be anſwerable to our Half Months, in regard it is ſkreened with Hills and Mountains, under which lie deep and ſhady Valleys, with hollow Caves and Receſſes, equally advantageous againſt the Extremities of Heat and Cold; watered likewiſe with great Lakes and Rivers, and conſequently by Nature furniſhed with all Things requiſite for Suſtentation of Life; and, therefore, it cannot reaſonably be thought, that theſe Advantages and Benefits ſhould be conferred by Nature for no Uſe or End; or that the Moon ſhould only be made to reflect the Sun's Light to us. See the learned Dr. Iſaac Voſſius, in his Treatiſe de Natura, et Propriet. Lucis, c. xix.

FINIS.

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’ΑΤΛΑΣ ΟΥΡΑ΄ΝΙΟΣ,

The COELESTIAL ATLAS;

OR, A NEW

EPHEMERIS

For the YEAR of our LORD 1788.

Being the

BISSEXTILE, or LEAP-YEAR.

Wherein are contained

The Heliocentrick and Geocentrick Places of the Planets, the ECLIPSES of the Luminaries, and other remarkable PHÆNOMENA that will happen this Year.

Carefully computed

From the genuine TABLES of Dr. EDMUND HALLEY, those of Professor MAYER, and other the latest and most correct ASTRONOMICAL TABLES.

ALSO

A Compleat ALMANACK, containing the FEASTS and FASTS of the Church of ENGLAND; the Times of the LUNATIONS; the Rising and Setting of the Sun, Moon, and Planets, &c.

Adapted to the

Meridian and Latitude of the ancient and honourable CITY of LONDON.

To which are added,

Several useful TABLES: As, a TABLE of the Sun's semi-diurnal Arcs, by which the Times of the Sun's Rising and Setting may be known by Inspection, on every Day in the Year, and in any Part of GREAT-BRITAIN or IRELAND [illegible]-TABLE, and a very correct one of the Eclipses of JUPI[illegible] first Satelles; a TABLE of the Sun's Right-Ascension; [illegible]BLES of the most remarkable fixed Stars, corrected from [illegible]STEED's Catalogue; and, lastly, a correct TABLE of [illegible] and Longitudes of the most remarkable Places in the W[illegible]

By ROBERT WHITE,
Teacher of the Mathematicks.

Ὁι ὐρανοὶ διηγοῦνται δοξαν Θεοῦ.

The THIRTY-NINTH IMPRESSION.

LONDON:
Printed for the Company of STATIONERS; and sold by ROBERT HORSFIELD, at their Hall, in Ludgate-street.
[Price NINE-PENCE stitched.]

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Chronological Notes for the Year 1788.

Golden Number	3	Septuagesima Sunday	Jan. 20
Cycle of the Sun	5	Shrove Sunday	Feb. 3
The Epact	22	Easter Day	Mar. 23
Dominical Letters	F E	Whit Sunday	May 11
Number of Direction	3	Trinity Sunday	May 18
Roman Indiction	6	Advent Sunday	Nov. 30

Astronomical Characters explained.

♈ Aries	♋ Cancer	♎ Libra	♑ Capricorn
♉ Taurus	♌ Leo	♏ Scorpio	♒ Aquarius
♊ Gemini	♍ Virgo	♐ Sagitary	♓ Pisces

♄ Saturn	☉ Sol (the Sun)	☽ Luna (the Moon)	⊖ Tellus,
♃ Jupiter	♀ Venus	☊ Moon's N. Node	Terra (or
♂ Mars	☿ Mercury	☋ her S. Node	the Earth)

☌ Conjunction when Planets are in the same Sign, Deg. Min. &c.
✶ Sextile when 2 Signs dist. | △ Trine when 4 Signs dist.
□ Quartile when 3 Signs dist. | ☍ Opposition when 6 Signs dist

Of the Four Quarters of the Year 1788.

	d	h	m	
THE Spring Quarter begins March	19	10	3	aftern.
The Summer Quarter begins June	20	8	2	aftern.
The Autumnal Quarter begins September	22	9	42	morn.
The Winter Quarter begins December	21	2	14	aftern.

THE beautiful Planet VENUS will be an Evening Star 'till August the 8th; and after that Time she will be a Morning Star to the Year's End.

JUPITER will be an Evening Star 'till the 29th Day of June, at which Time he becomes a Morning Star, and so continues to the Year's End.

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The NAMES of the Learned JUDGES of the LAW.

I. The Right Hon. Lord Thurlow, Lord High Chancellor.

Right Honourable Sir Lloyd Kenyon, Bart. Master of the Rolls.

II. In the K. Bench. } R. H. Wm. Earl Mansfield, L. C. J. Sir Nash Grose, Knt. Sir W. H. Ashurst, Knt. Francis Buller, Esq;

III. In the C. Pleas. } R. H. Alex. Lord Loughborough, L. C. J. Sir Henry Gould, Knt. Sir John Wilson, Knt. John Heath, Esq;

IV. In the Exchequer } Sir James Eyre, Knt. L. C. B. Sir Alex. Thompson, Knt. Sir Beaumont Hotham, Knt. Sir Richard Perryn, Knt.

Pepper Arden, Esq; Attor. General; Alex. M'Donald, Esq; Solic. General.

A TABLE of TERMS and Returns for the Year 1788.

Hilary Term begins Jan. 23, ends Feb. 12.

Returns or Essoign-days.		Exc.	Ret.	Ap.	W. D.
In eight Days of St. Hilary, - -	Jan. 20	21	22	23	Wedn.
In fifteen Days of St. Hilary - - -	27	28	29	30	Wedn.
On the Mor of the Purif. of the Bl. V. M	Feb. 3	4	5	6	Wedn.
In eight Days of the Purif. of the Bl. V. M.	9	10	11	12	Tuesday

Easter Term begins April 9, ends May 5.

In fifteen Days of Easter - -	April 6	7	8	9	Wedn
From Easter Day in three Weeks - -	13	14	15	16	Wedn.
From Easter Day in one Month - -	20	21	22	23	Wedn.
From Easter Day in five Weeks - -	27	28	29	30	Wedn.
On the Mor. of the Ascension of the Lord	May 2	3	4	5	Monday

Trinity Term begins May 23, ends June 11.

On the Morrow of the Holy Trinity, -	May 19	20	21	23	Friday.
In eight Days of the Holy Trinity, - -	25	26	27	28	Wedn.
In fifteen Days of the Holy Trinity, -	June 1	2	3	4	Wedn.
From the Day of the Holy Trin. in 3 Weeks	8	9	10	11	Wedn

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls - - -	Nov. 3	4	5	6	Thurf.
On the Morrow of St Martin - - -	12	13	14	15	Satur.
In eight Days of St. Martin - - -	18	19	20	21	Friday.
In fifteen Days of St. Martin - - - -	25	26	27	28	Friday.

N. B. No Sittings in Westminster-Hall on the Second of February, Ascension-day, and Midsummer-day.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, The first and last Days of every Term, are the first and last Days of Appearance.

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BIRTH-DAYS of the ROYAL FAMILY.

King George III. June 4,	1738	Prince Aug. Fred. Jan. 27,	1773
Prince of Wales, Aug. 12,	1762	Prince Adolph. Fred. Feb. 24,	1774
Prince Frederick, Aug. 16,	1763	Princeſs Mary, April 25, -	1776
Prince Wm. Henry, Aug. 21,	1765	Princeſs Sophia, Nov. 3, -	1777
Prn. Cha. Aug. Mat. Sept. 29,	1766	Princeſs Amelia, Aug. 7, -	1783
Prince Edward, Nov. 2, -	1767	Queen Charlotte, May 19,	1744
Prn. Auguſta Sophia, Nov. 8,	1768	Prn. Auguſta of Brun. Aug. 11,	1737
Prn. Elizabeth, May 22, -	1770	Duke of Glouceſter, Nov. 25,	1743
Prince Erneſt Auguſtus, June 5,	1771	Duke of Cumberland, Nov. 7,	1745

Sovereigns of Europe, their Acceſſion, &c.

Kingdoms, &c.	To whom ſubject.	When born.	Began to reign.
England, &c.	George III.	June 4, 1738	Oct. 25, 1760
France	Lewis XVI.	Aug. 23, 1754	May 10, 1774
Ruſſia	Catharine II.	May 2, 1729	July 9, 1762
Spain	Charles III.	Jan. 20, 1716	Aug. 10, 1759
Portugal	Mary	Dec. 7, 1734	Feb. 24, 1777
Pruſſia	Frederic IV.	Sept. 25, 1744	Aug. 17, 1786
Denmark & Norway	Chriſtian VII.	Jan. 29, 1749	Jan. 14, 1766
Sweden	Guſtavus III.	Jan. 24, 1746	Feb. 13, 1771
Germany	Joſeph	Mar. 13, 1741	Aug. 18, 1765
Poland	Staniſlaus III.	Jan. 17, 1732	Nov. 25, 1764
Holland	William V.	March 8, 1748	Oct. 11, 1751
Popedom	Pius VI.	Dec. 27, 1717	Feb. 18, 1775
Sardinia	Victor	June 26, 1726	Mar. 20, 1773
Ottoman Empire	Achmet IV.	Nov. 5, 1719	Jan. 21, 1774

The Full Weight of the Coins, with the Least Weight allowed to paſs of the Gold Coin.

GOLD.	Wt. allowed. dwt.	gr.	Full Wt. dwt.	gr.
Guinea, - -	5	8	5	$9\frac{19}{89}$
Half Guinea, -	2	16	2	$16\frac{64}{89}$
Quarter Guinea,	1	8	1	$8\frac{32}{89}$

SILVER.	Full Wt. dwt.	gr.
A Crown, - -	19	$8\frac{16}{37}$
Half Crown, -	9	$16\frac{8}{37}$
Shilling, - -	3	$20\frac{28}{37}$
Six Pence, - -	1	$22\frac{14}{37}$

According to the above proportions it appears, that the value of a *lb.* of ſilver is 62 s. or 3 l. 2 s. and of a *lb.* of gold is 44¼ guineas, or 46 l. 14 s. 6 d. Alſo that the *oz.* of ſilver is 5 s. 2 d. and the *oz.* of gold 3 l. 17 s. 10½ d. So that the value of the ſtandard gold is 15 times that of the ſilver, and 1-14th more.

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A TABLE of the KINGS and QUEENS of ENGLAND since the CONQUEST.

Kings and Queens	Born A.D.	Began their Reign	Reigned Y.	M.	D.	Age	Rem. Deaths and Dethroned	Where buried
Will. Conq.	1027	1066 Oct. 14	20	10	26	60	Burst by Leap.	Caen, Norm
Will. Rufus	1057	1087 Sept. 9	12	10	24	43	Slain accidentally.	Winchester
Henry I.	1068	1100 Aug. 2	35	3	29	77		Reading
Stephen	1105	1135 Dec. 1	18	10	24	49		Feversham
Henry II.	1133	1154 Oct. 25	34	8	11	55		Fonteveraud
Richard I.	1156	1189 July 6	9	9	0	43	Slain with an Arrow.	Fonteveraud
John	1165	1199 April 6	17	6	13	50		Worcester
Henry III.	1207	1216 Oct. 19	56	0	28	65		Westminster
Edward I.	1239	1272 Nov. 16	34	7	21	67		Westminster
Edward II.	1284	1307 July 7	19	6	18	43		Gloucester
Edward III.	1312	1327 Jan. 25	50	4	27	65		Westminster
Richard II.	1366	1377 June 21	22	3	8	33	Dep. & murd.	Westminster
Henry IV.	1367	1399 Sept. 29	13	5	20	46		Canterbury
Henry V.	1389	1413 Mar. 20	9	5	11	33		Westminster
Henry VI.	1421	1422 Aug. 31	38	6	4	49	Dep. & murd.	Windsor
Edward IV.	1442	1461 Mar. 4	22	1	5	41		Windsor
Edward V.	1471	1483 April 9	0	2	15	12	Murder'd.	Not known
Richard III.	1443	1483 June 22	2	2	0	42	Slain in Battle.	Leicester
Henry VII.	1456	1485 Aug. 22	23	8	0	52		Westminster
Henry VIII.	1492	1509 April 22	37	9	6	55		Windsor
Edward VI.	1537	1547 Jan. 28	6	5	8	15		Westminster
Mary I.	1516	1553 July 6	5	4	11	42		Westminster
Elizabeth	1533	1558 Nov. 17	44	4	7	69		Westminster
James I.	1566	1603 Mar. 24	22	0	3	58		Westminster
Charles I.	1600	1625 Mar. 27	23	10	3	48		Windsor
Charles II.	1630	1649 Jan. 30	36	0	7	54		Westminster
James II.	1633	1685 Feb. 6	4	0	7	67	Abdicated.	St. Germain
Mary II.	1662	1689 Feb. 13	5	10	15	32		Westminster
William III.	1650	1689 Feb. 13	13	0	23	52		Westminster
Anne	1665	1702 Mar. 8	12	4	24	49		Westminster
George I.	1660	1714 Aug. 1	12	10	10	67		Hanover
George II.	1683	1727 June 11	33	4	14	77		Westminster
George III.	1738	1760 Oct. 25	Crowned Sept. 22, 1761.					

Above you view the Rise and Fall of Kings,
Whose Fate sometimes a useful Lesson brings.
Well if all Men could profit from the past!
Each know his Duty, each excel the last,
And justly execute his stated Task.

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A TABLE of the most Reverend, Right Reverend, and Reverend, the ARCHBISHOPS, BISHOPS and DEANS, exercising Ecclesiastical Jurisdiction, 1788.

BISHOPS.	Sees.	Date.	Succeeded.	DEANS.
Dr. John Moore	*Bangor*	1775	Ewer deceased	
Arch-Bishop	Canterb. A.B	1783	Cornwallis dec.	Dr. Horne
Dr. Will. Markham	*Chester*	1771	Keene transfat.	
Arch-Bishop	York A. B.	1777	Drummond de.	Dr. J. Fountayne
	St. David's	1766	Squire deceas.	
Dr. Robert Lowth	*Oxford*	1766	Hume transl.	
	London	1777	Terrick dec.	Bishop Pretyman
Dr. Tho. Thurlow	Lincoln	1779	Green dec.	
	Durham	1787	Egerton dec.	Hon. W. Digby
	Litch & Cov.	1771	Egerton transl.	
Hon. Dr. B. North	*Worcester*	1774	Johnson decast.	
	Winchester	1781	Thomas deceas.	Dr. Ogle
Lord J. Beauclerk	Hereford	1746	Egerton deceas.	Dr. Wetherell
Sir W. Ashburnham	Chichester	1754	Mawson transl.	Dr. Harward
	St. David's	1766	Lowth transl.	
Dr. Charles Moss	Bath & Wells	1774	Willes deceased	Ld. Fr. Seymour
	Landaff	1769	Ewer transl.	
Dr. J. Shipley	St. Asaph	1769	Newcome dec.	Mr. W. D. Shipley
Dr. Edmond Law	Carlisle	1769	Lyttelton dec.	Dr. Ekins
	Landaff	1769	Shipley transl.	
Dr. S. Barrington	Salisbury	1782	Hume dec.	Dr. Noel
Dr. John Hinchliffe	Peterborough	1769	Lamb dec.	Dr. Ch. Tarrant
	St. David's	1774	Moss transl.	
M. Dr. James Yorke	*Gloucester*	1779	Warburton dec.	
	Ely	1781	Keene deceased	Dr. Cooke
Dr. John Thomas	Rochester	1774	Pearce dec.	Dr. Dampier
	Litch. & Cov.	1775	B. North tr.	
Dr. Richard Hurd	Worcester	1781	B. North tr.	Dr. St. John
Dr. Beilby Porteus	Chester	1776	Markham tran.	Dr. Cotton
Dr. John Butler	Oxford	1777	Lowth transl.	Dr. Jackson
Dr. John Ross	Exeter	1778	Keppel dec.	Dr. Buller
	St. David's	1779	Yorke transl.	
Dr. John Warren	Bangor	1783	Moore transl.	Dr. Tho. Lloyd
Dr. J. Cornwallis	Litch & Cov.	1781	Hurd transl.	Dr. Proby
Dr. Samuel Hallifax	Gloucester	1781	Yorke transl.	Dr. Josiah Tucker
	Bristol	1782	Newton dec.	
Dr. Lewis Bagot	Norwich	1783	Yonge dec.	Dr. P. Lloyd
Dr. Richard Watson	Landaff	1782	Barrington tr.	Dr. Adams, A.D.
Dr. Edward Smalwell	St. David's	1783	Warren transl.	Mr. Wollaston, P.
Dr. Christ. Wilson	Bristol	1783	Bagot transl.	Dr Hallam
Dr. W. Pretyman	Lincoln	1787	Thurlow tran.	Dr. Kaye
	Westminster	1768		Bishop Thomas
Dr. Claud Crigan	Sodor & Man	784	Mason dec.	
	Winton	1778		Hon. Dr. Harley

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Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♅'s latitude	♆'s latitude	♇'s latitude
1	4 43	7 17	1 55	22 ♐ 8	1 s 28	0 s 15	3 s 5	0 s 28	0 n 16
7	4 30	7 30	1 16	21 49	1 28	0 14	3 5	0 10	1 36
13	4 17	7 43	1 57	21 30	1 29	♀ 13	2 56	0 n 9	2 49
19	4 4	7 56	1 58	21 11	1 29	☉ 12	2 47	0 29	3 28
25	3 50	8 10	2 0	20 52	1 30	0 11	2 38	0 49	3 8

Days	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♅'s long.	♃'s long.	♀'s long.	♂'s long.
1	♓ 11 38 42	29 ♐ 38	0 n 36	2 ♓ 41	17 ♊ 14	9 ♍ 35	13 ♈ 26	26 ♓ 52
E	12 38 46	11 ♑ 24	1 37	2 48	17 18	9 45	14 39	28 32
3	13 38 49	23 13	2 34	2 55	17 22	9 56	15 52	0 ♈ 7
4	14 38 50	5 ♒ 8	3 24	3 2	17 26	10 8	17 5	1 38
5	15 38 50	17 13	4 6	3 10	17 31	10 20	18 18	3 4
6	16 38 48	29 30	4 37	3 17	17 35	10 33	19 31	4 25
7	17 38 44	12 ♓ 1	4 56	3 24	17 40	10 45	20 43	5 42
8	18 38 38	24 46	5 0	3 31	17 45	10 58	21 56	6 51
E	19 38 30	7 ♈ 43	4 48	3 38	17 50	11 12	23 8	7 53
10	20 38 20	20 53	4 22	3 45	17 56	11 26	24 21	8 48
11	21 38 8	4 ♉ 14	3 41	3 53	18 1	11 41	25 33	9 35
12	22 37 54	17 45	2 46	4 0	18 7	11 57	26 45	10 14
13	23 37 37	1 ♊ 25	1 42	4 7	18 13	12 13	27 57	10 46
14	24 37 18	15 15	0 31	4 14	18 19	12 29	29 9	11 9
15	25 36 56	29 14	0 s 43	4 21	18 26	12 46	0 ♉ 21	11 24
E	26 36 32	13 ♋ 28	1 55	4 28	18 32	13 3	1 33	11 31
17	27 36 6	27 40	3 1	4 35	18 39	13 21	2 45	11R 29
18	28 35 37	12 ♌ 2	3 55	4 42	18 45	13 39	3 57	11 19
19	29 35 6	26 27	4 35	4 49	18 52	13 57	5 9	11 1
20	♈ 0 34 33	10 ♍ 49	4 57	4 56	18 59	14 15	6 20	10 38
21	1 33 58	25 2	5 0	5 3	19 6	14 34	7 32	10 8
22	2 33 21	9 ♎ 0	4 45	5 9	19 13	14 53	8 43	9 32
E	3 32 41	22 39	4 14	5 16	19 21	15 13	9 55	8 51
24	4 31 59	5 ♏ 56	3 30	5 23	19 28	15 34	11 ♑ 6	8 6
25	5 31 16	18 49	2 36	5 29	19 36	15 55	12 17	7 16
26	6 30 31	1 ♐ 22	1 38	5 36	19 44	16 16	13 28	6 30
27	7 29 44	13 36	0 32	5 42	19 52	16 37	14 39	5 39
28	8 28 55	25 37	0 n 31	5 49	20 0	16 59	15 50	4 45
29	9 28 5	7 ♑ 29	1 33	5 55	20 8	17 21	17 1	3 55
E	10 27 13	19 17	2 31	6 2	20 16	17 43	18 12	3 1
31	11 26 19	1 ♒ 8	3 22	6 8	20 24	18 5	19 22	2 2

Days	♅ sets	♂ sets	♀ sets	♃ sets	♄'s declin.	♅'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	2 m 25	4 m 31	8 a 26	6 a 55	11 s 54	22 n 36	26 n 21	4 n 53	1 s
7	2 5	4 12	8 46	7 27	11 38	22 40	26 6	7 56	3 4
13	1 46	3 54	9 6	7 37	11 23	22 44	25 49	10 54	6 5
19	1 2	3 37	9 27	7 19	11 9	22 48	25 35	13 43	7 3
25	1 10	3 22	9 48	6 35	10 55	22 52	25 8	16 20	5 4

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The Lunations.

New Moon the 6th day, at 17 minutes past 1 afternoon,
First quarter the 13th day, at 52 minutes past 11 morning,
Full Moon the 20th day, at noon,
Last quarter the 28th day, at 39 minutes past 11 morning.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin	☽ rises & sets	☽ South	Clock bef. ☉
1		5 32	6 28	4 53	13 5 S	3 13	8 m 4	3 41
2	Ox. & Ca. T. beg.	5 30	6 30	5 18	8 46	3 35	8 49	3 23
3	Richard	5 28	6 32	5 41	4 0 6	3 54	9 33	3 5
4	St Ambrose	5 26	6 34	6 4	0 ♑ 50	4 13	10 17	2 47
5	Old Lady day	5 24	6 36	6 26	5 50	4 30	11 2	2 29
6	2 S. aft. Easter	5 22	6 38	6 49	10 41	sets	11 50	2 12
7		5 20	6 40	7 11	15 7	8 a 22	0 a 41	1 55
8		5 18	6 42	7 34	18 49	9 40	1 35	1 38
9	Easter T. beg.	5 16	6 44	7 56	21 28	10 52	2 32	1 21
10		5 14	6 46	8 18	22 49	11 57	3 31	1 5
11		5 12	6 48	8 40	22 44	morn	4 31	0 49
12	3 S. aft. Easter	5 10	6 50	9 2	21 11	0 50	5 30	0 33
13		5 8	6 52	9 24	18 20	1 33	6 27	0 17
14		5 6	6 54	9 45	14 23	2 6	7 21	0 2
15		5 5	6 55	10 6	9 40	2 34	8 13	0 a 13
16		5 3	6 57	10 28	4 n 28	2 57	9 3	0 28
17		5 1	6 59	10 49	0 ♎ 54	3 19	9 52	0 42
18		4 59	7 1	11 9	6 11	3 39	10 40	0 56
19	Alphege	4 57	7 3	11 30	11 4	4 0	11 29	1 9
20	4 S. aft. Easter	4 56	7 5	11 51	15 21	rises	morn	1 22
21		4 53	7 7	12 11	18 48	8 ♑ 53	0 20	1 35
22		4 51	7 9	12 31	21 15	9 58	1 11	1 47
23	St. George	4 50	7 10	12 51	22 36	10 56	2 2	1 59
24		4 48	7 12	13 10	22 51	11 44	2 53	2 10
25	St. Mark. Pre. Ma. b.		7 14	13 30	22 0	morn	3 43	2 21
26		4 44	7 16	13 49	20 12	0 24	4 32	2 31
27	Rogation S.	4 42	7 18	14 8	17 31	0 55	5 19	2 41
28		4 40	7 20	14 27	14 7	1 22	6 5	2 50
29		4 39	7 21	14 45	10 8	1 43	6 49	2 58
30		4 37	7 23	15 4	5 41	2 2	7 32	3 6

D	Day increaf.	Length of day	Helioc. long. ♄	Helioc. long. ♅	Helioc. long. ♂	Helioc long ☉	Helioc. long. ♀	Helioc. long. ☿	☽ rises
1	5 [illegible]	12 59	2 ♓ 46	0 ♎ 57	25 ♌ 12	12 ♎ 25	19 ♎ 54	27 ♎ 12	4 m 40
11	5 39	13 24	2 58	1 27	27 49	18 19	20 39	15 ♍ 29	4 20
21	6 1	13 45	3 9	1 58	0 ♍ 26	24 12	23 24	2 ♐ 28	3 59
31	6 23	14 7	3 21	2 28	3 3	0 3	29 9	18 57	3 38
1	6 45	14 29	3 32	2 59	5 41	5 53	28 55	♑ 44	3 16

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Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	☿'s latitude	♀'s latitude	♂'s latitude	♃'s latitude	♄'s latitude
1	3 33	8 27	2 3	20 ♐ 35	1 s 31	0 s 10	2 n 25	1 n 13	1 n 38
7	3 7	8 42	2 8	20 11	1 32	0 10	2 22	1 33	0 2
13	3 2	8 58	2 11	19 5	1 33	0 9	2 14	1 51	1 20
19	2 47	9 13	2 15	19 32	1 34	0 8	2 7	2 8	2 17
25	2 26	9 34	2 25	19 13	1 35	0 7	2 1	2 24	2 48

Days	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♅'s long.	♂'s long.	♀'s long.	☿'s long.
1	♈ 12 25 23	♒ 13 0	4 n 5	♓ 6 14	♊ 20 33	♎ 18 28	♉ 20 3	♈ 17 47
2	13 24 26	♒ 25 15	4 37	6 20	20 42	18 54	21 44	1 10
3	14 23 27	♓ 7 40	4 57	6 27	20 51	19 14	22 54	0 38
4	15 22 27	20 22	5 3	6 33	21 0	19 35	24 4	0 10
5	16 21 24	♈ 3 23	4 54	6 39	21 9	20 2	25 14	29 ♓ 47
6	17 20 19	16 40	4 29	6 46	♋ 21 18	20 26	26 24	29 31
7	18 19 12	♉ 0 13	3 48	6 52	21 27	20 50	27 34	29 21
8	19 18 3	13 59	2 53	6 58	21 36	21 15	28 43	29 16
9	20 16 52	27 51	1 48	7 4	21 46	21 40	29 53	29 D 15
10	21 15 39	♊ 11 55	0 35	7 10	21 55	22 5	♊ 1 3	9 19
11	22 14 24	26 0	0 s 41	7 16	22 5	22 30	2 12	29 28
12	23 13 6	♋ 10 8	1 54	7 21	22 15	22 55	3 21	29 42
E	24 11 46	24 16	3 0	7 27	22 25	23 21	4 30	☌ ☿ 1
14	25 10 23	♌ 8 24	3 56	7 33	22 35	23 47	5 39	0 24
15	26 8 58	22 29	4 36	7 38	22 45	24 13	6 48	0 52
16	27 7 31	♍ 6 33	5 1	7 44	22 56	24 40	7 56	1 25
17	28 6 2	♎ 20 26	5 7	7 49	23 6	25 7	9 5	2 2
18	29 4 31	♎ 4 11	4 55	7 55	23 16	25 34	10 14	2 42
19	♉ 0 2 58	17 44	4 27	8 0	23 27	26 1	11 22	3 26
E	1 1 23	♍ 1 2	3 45	8 5	23 37	26 28	12 30	4 14
21	1 59 46	♎ 14 2	2 51	8 11	23 48	26 55	13 38	5 5
22	2 58 7	26 45	1 50	8 16	23 59	27 23	14 45	5 59
23	3 56 26	♏ 9 11	0 45	8 21	24 10	27 51	15 53	6 56
24	4 54 44	21 23	0 n 21	8 26	24 21	28 19	17 1	7 56
25	5 53 0	♐ 3 23	1 25	8 31	24 32	28 47	18 8	8 58
26	6 51 15	♐ 15 16	2 21	8 36	24 43	29 15	19 15	10 5
E	7 49 28	27 5	3 18	8 41	24 54	♍ 29 43	20 22	11 13
28	8 47 40	♒ 8 57	4 4	8 46	25 5	♎ 0 12	21 29	12 24
29	9 45 51	20 56	4 39	8 51	25 17	0 41	22 36	13 38
30	10 44 0	♓ 3 7	5 2	8 55	25 28	1 10	23 43	14 54

Days	♃ sets	♂ sets	♀ sets	☿ rises	☽'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	0 m 50	3 m 3	10 a 12	5 m 5	10 s 39	22 n 58	24 n 39	19 n 5	2 n 12
7	0 32	2 47	10 33	5 2	10 26	23 2	24 11	21 8	0 s 14
13	0 14	2 32	10 52	4 43	10 14	23 6	23 39	22 53	1 13
19	11 a 53	2 17	11 9	4 25	10 2	23 10	23 17	24 17	0 43
25	11 37	1 53	11 24	4 15	9 51	23 14	22 24	25 18	0 n 19

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The Lunations.

New Moon the 6th day, at 46 minutes before 1 morning.
First quarter the 12th day, at 33 minutes past 5 afternoon.
Full Moon the 20th day, at 8 minutes past 1 morning.
Last quarter the 28th day, at 33 minutes past 4 morning.

M. D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉
1	Afc. St. Phil. and Ja.	4 35	7 25	15 s 22	0 s 54	2 m 21	8 m 14	3 14
2		4 34	7 26	15 39	4 n 2	2 39	8 59	3 21
3	Inv. of the Croſs	4 32	7 28	15 57	8 55	3 0	9 47	3 27
4	S. after Aſcen.	4 30	7 30	16 14	13 32	3 21	10 35	3 33
5	Easter Term en.	4 28	7 32	16 31	17 3	3 48	11 28	3 38
6	St. John A.P.L.	4 27	7 33	16 48	20 37	sets	0 s 25	3 43
7		4 25	7 35	17 4	22 27	9 s 51	1 25	3 47
8	Oxford Ter. en.	4 23	7 37	17 21	22 47	10 49	2 26	3 50
9		4 22	7 38	17 37	21 36	11 36	3 27	3 53
10		4 20	7 40	17 52	18 59	morn	26	3 56
11	Whit Sunday	4 19	7 41	18 7	15 14	0 12	5 22	3 57
12	Whit Mond.	4 17	7 43	18 22	10 38	0 42	6 14	3 59
13	Whit Tuef.	4 16	7 44	18 37	5 33	1 5	7 4	3 59
14	Ember week	4 14	7 46	18 51	0 n 16	1 27	7 52	4 0
15		4 13	7 47	19 5	4 s 57	1 48	8 39	3 59
16		4 11	7 49	19 19	9 52	2 7	9 27	3 58
17		4 10	7 50	19 33	14 14	2 29	10 16	3 57
18	Trinity Sund.	4 8	7 52	19 46	17 52	2 54	11 5	3 55
19	Q. Ch. b.	Dunſt.	7 53	19 58	20 34	3 24	11 56	3 52
20		4 6	7 54	20 11	22 15	rises	morn	3 49
21	Oxf. Ter. beg.	4 4	7 56	20 23	22 50	9 s 41	0 47	3 46
22	Pr. Eliz. b.	C. Chr.	7 57	20 34	22 19	10 22	1 38	3 41
23	Trin. Term b.	4 2	7 58	20 46	20 47	10 57	2 27	3 37
24		4 0	8 0	20 57	18 21	11 24	3 15	3 32
25	1 S. aft. Trin.	3 59	8 1	21 7	15 10	11 46	4 0	3 25
26	Auguſtin	3 57	8 2	21 18	11 23	morn	4 44	3 19
27	Vene. Bede	3 57	8 3	21 28	7 7	0 7	5 27	3 12
28		3 56	8 4	21 37	2 s 30	0 26	6 9	3 5
29	K. Ch. 2. reſtor.	3 55	8 5	21 46	2 n 18	0 43	6 52	2 57
30		3 54	8 6	21 55	7 8	1 1	7 36	2 49
31		3 53	8 7	22 3	11 47	1 21	8 23	2 41

D	Day increaſ.	Length of day	Helioc. long. ♄	Helioc. long. ♅	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ☿	♄ rises
1	7 7	14 51	3♓44	3♑29	8♏18	11♊42	8 40	23♑33	2 m 54
7	7 27	15 11	3 55	4 0	10 55	17 30	18 24	13♒19	2 38
13	7 45	15 29	4 7	4 30	13 31	23 18	28 8	6♓10	2 9
19	8 4	15 47	4 18	5 0	16 11	29 4	7♌51	30♓23	1 46
25	8 19	16 3	4 30	5 31	18 50	4 49	17 32	5♉51	1 22

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Days	Day lig begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♅'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1	2 6	9 57	2 3	18 ♐ 54	1 8 30	0 s 7	1 n 55	2 m 35	2 s 57
7	1 44	10 1	2 4	18 35	1 37	0 6	1 49	2 44	2 43
13	1 19	10 45	3	18 10	1 39	0 5	1 43	2 49	2 10
19	0 48	11 20	3 32	17 57	1 40	0 5	1 37	2 49	1 20
25	All day-light			17 38	1 41	0 4	1 32	2 45	0 18

M D	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♅'s long.	♂'s long.	♀'s long.	☿'s long.
1	♉ 11 42 8	♓ 35	5 n 11	9 ♈ 0	25 ♊ 40	1 ♌ 39	24 ♊ 49	16 ♈ 12
2	12 40 15	♉ 2	5 6	9 4	25 52	2 8	25 55	17 32
3	13 38 19	♈ 31	4 43	9 9	26 4	2 37	27 0	18 55
E	14 36 23	25 2	4 7	9 13	26 16	3 7	28 5	20 20
5	15 34 25	♉ 53	3 14	9 18	26 28	3 37	29 11	21 47
6	16 32 26	23 1	2 8	9 22	26 40	4 7	♋ 16	23 16
7	17 30 24	7 ♊ 22	0 53	9 26	26 52	4 37	1 21	24 47
8	18 28 21	21 5	0 s 26	9 30	27 4	5 7	2 26	26 20
9	19 26 17	6 ♋ 20	1 44	9 34	27 16	5 37	3 30	27 55
10	20 24 11	20 4	2 54	9 38	27 28	6 7	4 35	29 33
E	21 22 3	5 ♌ 7	3 54	9 42	27 40	6 38	5 39	1 ♉ 13
12	22 19 54	19 18	4 38	9 46	27 52	7 9	6 43	2 55
13	23 17 42	3 ♍ 18	5 6	9 49	28 5	7 40	7 46	4 39
14	24 15 28	17 7	5 15	9 53	28 17	8 11	8 50	6 25
15	25 13 13	♎ 42	5 6	9 56	28 30	8 42	9 53	8 13
16	26 10 56	14 3	4 41	9 59	28 42	9 13	10 55	10 4
17	27 8 37	27 11	4 1	10 3	28 55	9 44	11 57	11 56
E	28 6 17	10 ♍ 5	3 1	10 6	29 7	10 15	12 59	13 49
19	29 3 56	22 45	2 1	10 9	29 20	10 47	14 1	15 44
20	♊ 0 1 33	5 ♐ 12	1 5	10 12	29 32	11 19	15 3	17 41
21	0 59 10	17 27	0 n 3	10 15	29 45	11 51	16 4	19 41
22	1 56 45	29 32	1 9	10 18	29 58	12 23	17 5	21 44
23	2 54 19	11 ♑ 29	2 12	10 21	♋ 11	12 55	18 5	23 48
24	3 51 52	23 20	3 8	10 23	0 24	13 27	19 4	25 53
E	4 49 24	5 ♒ 10	3 57	10 26	0 37	13 59	20 3	28 0
26	5 46 56	17 2	4 35	10 29	0 50	14 31	21 2	0 ♊ 8
27	6 44 26	29 1	5 2	10 31	1 2	15 4	22 1	2 18
28	7 41 57	11 ♓ 12	5 10	10 33	1 16	15 36	22 59	4 29
29	8 39 26	23 38	5 1	10 35	1 29	16 9	23 57	6 40
30	9 36 55	6 ♈ 24	4 56	10 36	1 43	16 41	24 56	8 52
31	10 34 23	19 34	4 28	10 40	1 57	17 14	25 57	11 4

Days	♃ sets	♂ sets	♀ sets	☿ rises	♄'s declin.	♅'s declin	♂'s declin	♀'s declin.	☿'s declin.
1	11 a 20	1 m 47	11 a 36	4 m 4	9 s 42	23 n 17	21 n 41	25 n 5	3 n 40
7	11 2	1 30	11 44	3 56	9 3	23 20	20 53	26 1	7 5
13	10 44	1 12	11 48	3 48	9 25	23 22	20 2	26 3	11 3
19	10 27	0 56	11 48	3 44	9 19	23 24	19 7	25 32	15 18
25	10 8	0 39	11 43	3 42	9 19	23 24	18 7	24 4	19 27

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The Lunations.

New Moon the 4th day, at 58 minutes past 8 morning.
First quarter the 10th day, at 38 minutes past 11 night.
Full Moon the 18th day, at 26 minutes past 3 afternoon.
Last quarter the 26th day, at 40 minutes past 6 afternoon.

M D	Sundays & other remark. days.	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉
F 1	2 S. aft. Trin.	Nicom.	8 8	22 s 11	16 n 1	1m 45	9m 13	2 31
2		3 51	8 9	22 19	19 30	2 14	10 7	2 22
3		3 50	8 10	22 26	21 52	2 52	11 6	2 12
4	K. Geo. III. b.	3 49	8 11	22 33	22 49	☽ sets	0 a 8	2 2
5	~~Pr. Ed. Aug. b.~~	Bonita.	8 11	22 40	22 11	9 a 27	1 11	1 51
6		3 48	8 12	22 46	19 58	10 11	2 13	1 40
7		3 47	8 13	22 51	16 26	10 43	3 11	1 29
S 8	3 S. aft. Trin.	3 47	8 13	22 57	11 55	11 8	4 6	1 18
9		3 46	8 14	23 1	6 48	11 31	4 58	1 6
10		3 46	8 14	23 6	1 n 27	11 51	5 47	0 54
11		Tr. Lee.	8 15	23 10	3 s 50	morn	6 34	0 42
12	St Barnabas	3 45	8 15	23 14	8 50	0 10	7 22	0 30
13		3 44	8 16	23 17	13 19	0 32	8 10	0 18
14		3 44	8 16	23 20	17 5	0 56	8 58	0 5
S 15	~~4 S. aft. Trin.~~	3 44	8 16	23 22	20 0	1 23	9 48	obef. 8
16		3 43	8 17	23 24	21 56	1 57	10 38	0 20
17	St. Alban	3 43	8 17	23 26	22 48	2 38	11 28	0 33
18		3 43	8 17	23 27	22 34	☽ rises	morn	0 46
19		3 43	8 17	23 28	21 19	8 a 52	0 18	0 59
20	Transf. Ed. K. W. S	3 43	8 17	23 28	19 8	9 24	1 6	1 12
21	Longest day	3 43	8 17	23 28	16 9	9 46	1 52	1 24
S 22	5 S. aft. Trin.	3 43	8 17	23 27	12 31	10 7	2 36	1 37
23		3 43	8 17	23 27	8 23	10 25	3 19	1 50
24	Nativ. J. Bapt.	3 43	8 17	23 25	3 s 55	10 43	4 1	2 3
25		4 43	8 17	23 23	0 n 47	11 1	4 42	2 15
26		3 44	8 16	23 21	5 31	11 19	5 25	2 28
27		3 44	8 16	23 19	10 9	11 40	6 9	2 40
28		3 44	8 16	23 16	14 28	morn	6 56	2 53
S 29	6 S. aft. Trin.	3 45	8 15	23 12	18 11	0 6	7 47	3 5
30	St. Peter	3 45	8 15	23 9	21 0	0 38	8 42	3 17

Days	Day increas.	Length of day	Heliocl. long. ♄	Heliocl. long. ♅	Heliocl. long. ♂	Heliocl. long. ☉	Heliocl. long. ♀	Heliocl. long. ☿	♄ rises
1	8 33	16 7	4 ♓ 43	6 ♍ 6	21 ♍ 55	11 ♐ 32	28 ♎ 48	19 ♊ 1	0 m 54
7	8 42	16 26	4 55	6 36	24 34	17 16	8 ♏ 25	25 ♍ 53	0 29
13	8 46	16 30	5 6	7 6	27 14	23 0	18 1	28 ♌ 14	0 4
19	8 50	16 34	5 18	7 36	29 55	28 44	27 36	25 ♍ 1	11 a 38
25	odec. 2	16 32	5 29	8 7	2 ♎ 35	4 ♑ 27	7 ♐ 9	17 ♎ 21	11 13

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Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	☿'s latitude	♀'s latitude	♂'s latitude	♃'s latitude	♄'s latitude
1				17 ♐ 16	1 a 43	0 a 3	1 n 26	2 n 33	0 n 54
7				16 57	1 44	0 3	1 21	2 16	1 39
13	All	day	light	16 38	1 46	0 2	1 16	1 52	1 59
19				16 19	1 47	0 1	1 11	1 20	1 53
25				16 0	1 49	0 1	1 6	0 39	1 23

M D	☉'s longitude	☽'s long.	☽'s latitude	☿'s long.	♀'s long.	♂'s long.	♃'s long.	♄'s long.
E	♊ 11 31 50	3 ♉ 8	3 n 40	10 ♓ 42	2 ♋ 8	17 ♌ 47	26 ♋ 49	13 ♊ 16
2	12 29 17	17 7	2 38	10 44	2 21	18 20	27 46	15 28
3	13 26 43	1 ♊ 29	1 25	10 46	2 34	18 53	28 42	17 39
4	14 24 8	16 9	0 5	10 47	2 48	19 26	29 37	19 49
5	15 21 33	1 ♋ 0	1 s 17	10 49	3 1	20 0	0 ♌ 31	21 59
6	16 18 56	15 55	2 34	10 51	3 14	20 33	1 25	24 7
7	17 16 19	0 ♌ 45	3 40	10 52	3 28	21 7	2 18	26 13
E	18 13 40	15 25	4 31	10 53	3 41	21 40	3 11	28 18
9	19 11 1	29 49	5 4	10 54	3 54	22 14	4 3	0 ♋ 21
10	20 8 21	13 ♍ 54	5 17	10 55	4 8	22 47	4 55	2 22
11	21 5 39	27 39	5 12	10 56	4 21	23 21	5 46	4 21
12	22 2 56	11 ♎ 4	4 50	10 57	4 34	23 55	6 37	6 18
13	23 0 13	24 11	4 13	10 58	4 48	24 29	7 27	8 13
14	23 57 29	7 ♏ 0	3 25	10 58	5 1	25 3	8 16	10 6
E	24 54 44	19 35	2 27	10 59	5 15	25 37	9 4	11 56
16	25 51 58	1 ♐ 57	1 23	10 59	5 28	26 11	9 51	13 44
17	26 49 12	14 8	0 16	10 59	5 42	26 46	10 37	15 30
18	27 46 25	26 12	0 n 51	11 0	5 55	27 20	11 23	17 13
19	28 43 38	8 ♑ 9	1 54	11 ♑ 0	6 9	27 54	12 8	18 54
20	29 40 50	20 1	2 53	11 0	6 22	28 28	12 52	20 33
21	♋ 0 38 3	1 ♒ 51	3 43	11 0	6 36	29 3	13 35	22 9
E	1 35 15	13 42	4 25	11 0	6 50	29 37	14 17	23 43
23	2 32 27	25 35	4 54	10 59	7 3	0 ♍ 12	14 58	25 15
24	3 29 39	7 ♓ 35	5 12	10 59	7 17	0 46	15 37	26 44
25	4 26 51	19 46	5 15	10 59	7 31	1 21	16 16	28 11
26	5 24 3	2 ♈ 10	5 5	10 59	7 45	1 56	16 54	29 35
27	6 21 16	14 53	4 39	10 58	7 58	2 31	17 30	0 ♌ 57
28	7 18 29	27 58	3 58	10 58	8 12	3 6	18 5	2 16
E	8 15 42	11 ♉ 27	3 3	10 57	8 25	3 41	18 39	3 33
30	9 12 56	25 23	1 56	10 56	8 30	4 16	19 11	4 47

Days	♃ sets	♂ sets	♀ sets	☿ sets	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	9 a 46	0 m 18	11 a 34	8 a 23	9 s 9	23 n 24	16 n 53	23 n 19	23 n 19
7	9 27	0 0	11 22	9 8	9 7	23 24	15 45	21 53	25 4
13	9 7	11 a 39	11 7	9 37	9 6	23 21	14 34	20 14	25 12
19	8 48	11 20	10 49	9 49	9 6	23 18	13 20	18 28	24 0
25	8 29	11 1	10 28	9 49	9 8	23 15	12 2	16 37	21 55

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The Lunations.

New Moon the 3d day, at 15 minutes past 4 afternoon.
First quarter the 10th day, at 33 minutes past 7 morning.
Full Moon the 18th day, at 34 minutes past 6 morning
Last quarter the 26th day, at 10 minutes past 6 morning.

☽	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock bef. ☉
1	Camb. Com.	3 46	8 14	23 s 5	22 n 35	1m 22	9 m42	3 28
2	Visit. of B.V.M.	3 46	8 14	23 0	22 39	2 19	10 45	3 40
3	Dog days begin	3 47	8 13	22 55	21 6	☽ sets	11 48	3 51
4	Transf. St. Mart.	Cs.T.e.	8 12	22 50	18 2	8 a 34	0 a 50	4 1
5	O. Midsum. day	3 48	8 12	22 44	13 45	9 55	1 49	4 12
6	☽ S. aft. Trin.	3 49	8 11	22 38	8 40	9 29	2 44	4 22
7	Oxford Act	3 50	8 10	22 31	3 n 12	9 51	3 35	4 32
8		3 50	8 10	22 24	2 s 18	10 9	4 24	4 41
9		3 51	8 9	22 17	7 31	10 32	5 13	4 50
10		3 52	8 8	22 9	12 13	10 55	6 2	4 58
11		3 53	8 7	22 1	16 13	11 21	6 50	5 6
12	Oxf. T. ends	3 54	8 6	21 53	19 21	11 53	7 40	5 14
13	☽ S. aft. Trin.	3 55	8 5	21 44	21 31	morn	8 30	5 21
14		3 56	8 4	21 34	22 38	0 32	9 20	5 27
15	Swithin	3 57	8 3	21 25	22 42	1 18	10 9	5 33
16		3 58	8 2	21 15	21 43	2 11	10 58	5 39
17		4 0	8 0	21 5	19 47	3 11	11 45	5 44
18		4 1	7 59	20 54	17 0	☽ rises	morn	5 48
19		4 2	7 58	20 43	13 32	8 a 10	0 30	5 52
20	☽ S. aft. Trin.	Margar.	7 57	20 32	9 32	8 29	1 14	5 55
21		4 5	7 55	20 21	5 9	8 46	1 56	5 58
22	Magdalen	4 6	7 54	20 8	0 s 33	9 4	2 37	6 0
23		4 7	7 53	19 55	4 n 8	9 22	3 19	6 2
24		4 9	7 51	19 43	8 45	9 43	4 2	6 3
25	St. James	4 10	7 50	19 30	13 4	10 6	4 48	6 4
26	St. Anne	4 11	7 49	19 16	16 54	10 36	5 36	6 4
27	☽ S. aft. Trin.	4 13	7 47	19 3	19 59	11 11	6 28	6 3
28		4 14	7 46	18 49	22 2	morn	7 24	6 2
29		4 16	7 44	18 34	22 44	0 0	8 23	6 0
30		4 17	7 43	18 20	21 55	1 2	9 25	5 58
31		4 18	7 41	18 5	19 3	2 16	10 27	5 55

☽	Day decreas.	Length of day	Helioc. long. ♄	Helioc. long. ♅	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ☿	♄ rises
1	0 4	16 30	5♐41	8♎36	5♎17	10♌10	16♐40	6m40	10 a 50
7	0 12	16 22	5 52	9 6	8 0	15 54	26 12	24 11	10 25
13	0 24	16 10	6 4	9 36	10 43	21 37	5♑40	10♐49	10 0
19	0 38	15 56	6 15	10 6	13 30	27 20	15 9	27 21	9 36
25	0 54	15 40	6 27	10 36	16 15	3♒4	24 33	14 34	9 12

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Day	Day lig. begins	Day lig. ends	Durat. twilig.	☽'s node	♄'s latitude	♅'s latitude	♂'s latitude	♀'s latitude	☿'s Latitude
1				15 ♐ 40	1 s 50	0 0	1 n 2	0 s 11	0 n 33
7	All	day -	light	15 21	1 52	0 0	0 57	1 11	0 s 34
13				15 2	1 53	0 n 1	0 53	2 21	1 53
19				14 43	1 54	0 1	0 48	3 38	3 16
25	0 45	11 7	3 20	14 24	1 55	0 2	0 44	5 1	4 26

M D	☉'s longitude			☽'s long.	☽'s latitude	♄'s long.	♅'s long.	♂'s long.	♀'s long.	☿'s long.
1	♋ 10	10	9	9 ♌ 46	0 n 39	10 ♓ 55	8 ♋ 52	4 ♍ 51	19 ♌ 42	5 ♌ 58
2	11	7	23	24 31	0 s 42	10 54	9 6	5 26	20 12	7 7
3	12	4	37	9 ♎ 34	2 1	10 52	9 19	6 2	20 41	8 13
4	13	1	51	24 45	3 13	10 51	9 33	6 38	21 8	9 16
5	13	59	5	9 ♌ 55	4 11	10 49	9 46	7 13	21 33	10 16
E	14	56	19	24 53	4 51	10 48	10 0	7 49	21 56	11 13
7	15	53	33	9 ♍ 33	5 11	10 46	10 13	8 25	22 18	12 7
8	16	50	47	23 49	5 11	10 45	10 27	9 1	22 38	12 57
9	17	48	0	7 ♎ 38	4 53	10 43	10 40	9 37	22 56	13 44
10	18	45	14	21 2	4 19	10 41	10 54	10 13	23 12	14 28
11	19	42	28	4 ♏ 2	3 32	10 39	11 7	10 49	23 26	15 8
12	20	39	42	16 42	2 37	10 37	11 21	11 25	23 39	15 44
E	21	36	55	29 5	1 35	10 35	11 34	12 1	23 50	16 15
14	22	34	9	11 ♐ 15	0 30	10 33	11 48	12 37	23 58	16 42
15	23	31	23	23 16	0 n 36	10 30	12 1	13 13	24 3	17 5
16	24	28	37	5 ♑ 10	1 39	10 28	12 15	13 50	24 5	17 24
17	25	25	52	17 1	2 38	20 25	12 28	14 26	24 ℞ 5	17 38
18	26	23	7	28 51	3 29	10 23	12 42	15 2	24 5	17 48
19	27	20	23	10 ♒ 42	4 11	10 20	12 55	15 39	24 5	17 53
E	28	17	39	22 35	4 43	10 18	13 9	16 15	24 1	17 ℞ 53
21	29	14	56	4 ♓ 33	5 2	10 15	13 22	16 52	23 55	17 48
22	♌ 0	12	14	16 38	5 8	10 12	13 36	17 29	23 45	17 37
23	1	9	33	28 51	5 1	10 9	13 49	18 6	23 31	17 21
24	2	6	53	11 ♈ 17	4 39	10 6	14 2	18 43	23 14	17 1
25	3	4	14	23 58	4 3	10 3	14 15	19 20	22 55	16 37
26	4	1	36	6 ♉ 58	3 14	10 0	14 28	19 57	22 33	16 8
E	4	58	59	20 21	2 13	9 57	14 41	20 34	22 10	15 34
28	5	56	23	4 ♊ 8	1 3	9 53	14 54	21 11	21 45	14 56
29	6	53	48	18 21	1 s 13	9 50	15 7	21 48	21 19	14 16
30	7	51	14	2 ♋ 58	1 31	9 46	15 20	22 25	20 52	13 33
31	8	48	42	17 57	2 44	9 43	15 33	23 2	20 24	12 48

Day	♅ rises	♂ sets	♀ sets	☿ sets	♄'s declin.	♅'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	3 m 39	10 a 43	10 a 4	9 a 39	9 s 11	23 n 10	10 n 42	14 n 46	19 n 20
7	3 21	10 24	9 39	9 21	9 16	23 5	9 18	12 58	16 38
13	3 3	10 6	9 10	8 57	9 22	22 59	7 52	11 22	14 9
19	2 46	9 47	8 37	8 28	9 28	22 52	6 24	10 4	12 23
25	2 29	9 28	8 3	7 54	9 35	22 44	4 54	9 9	11 39

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The Lunations.

New Moon the 1ſt day, at 6 minutes paſt 11 night.
Firſt quarter the 8th day, at 36 minutes paſt 6 afternoon.
Full Moon the 16th day, at 57 minutes paſt 9 night.
Laſt quarter the 24th day, at 39 minutes paſt 3 afternoon.
New moon the 31ſt day, at 34 minutes paſt 6 morning.

M. D	Sundays & other remark. days	☉ riſes	☉ ſets	☉'s declin	☽'s declin.	☽ riſes & ſets	☽ South	Clock bef. ☉
1	Lammas day	4 20	7 40	17 s 49	15 n 49	☽ ſets	11 m29	5 51
2		4 22	7 38	17 34	11 0	7 a 28	0 a 26	5 47
F.	11 S. aft. Trin.	4 24	7 36	17 18	5 n 34	7 51	1 23	5 43
4		4 25	7 35	17 2	0 s 5	8 13	2 14	5 37
5		4 27	7 33	16 46	5 35	8 36	3 5	5 31
6	Transfiguration	4 28	7 32	16 29	10 37	9 0	3 55	5 25
7	Prs. Amel. b.	N. of Jeſus	30	16 12	14 56	9 25	4 45	5 18
8		4 32	7 28	15 55	18 24	9 55	5 35	5 10
9		4 34	7 26	15 37	20 52	10 32	6 25	5 2
E	12 S. aft. Trin.	St. Laurence	25	15 20	22 18	11 16	7 16	4 53
11	Prs. Bruns. b.	Dogd. c.	23	15 2	22 38	morn	8 7	4 43
12	Pr. Wales b.	4 39	7 21	14 44	21 56	0 8	8 56	4 33
13		4 41	7 19	14 25	20 16	1 6	9 44	4 22
14		4 42	7 18	14 7	17 44	2 8	10 30	4 11
15	Aſſumption	4 44	7 16	13 48	14 28	3 13	11 14	3 59
16	D. of York b.	4 46	7 14	13 29	10 37	☾ riſes	11 57	3 47
E	13 S. aft. Trin.	4 48	7 12	13 10	6 20	6 55	morn	3 34
18		4 50	7 10	12 50	1 s 47	7 14	0 39	3 21
19		4 51	7 9	12 30	2 n 53	7 34	1 22	3 7
20		4 53	7 7	12 10	7 30	7 53	2 5	2 53
21	Pr. W. Hen. b.	4 55	7 5	11 50	11 52	8 16	2 50	2 38
22		4 57	7 3	11 30	15 47	8 43	3 37	2 23
23		4 59	7 1	11 10	19 1	9 15	4 27	2 8
E	14 S. aft. Trin.	5 1	6 59	10 49	21 19	9 59	5 20	1 52
25	St. Bartho.	5 2	6 58	10 28	22 26	10 52	6 16	1 36
26		5 4	6 56	10 7	22 13	11 58	7 15	1 19
27		5 6	6 54	9 46	20 31	morn	8 15	1 2
28	St. Auguſtine	5 8	6 52	9 25	17 26	1 16	9 15	0 44
29	Behead. J. Bap.	5 10	6 50	9 3	13 11	2 39	10 14	0 27
30		5 12	6 48	8 42	8 5	4 6	11 11	0 9
E	15 S. aft. Trin.	5 14	6 46	8 20	2 30	ſets	0 a 5	0 aft. 10

Day	Day decreaſ.	Length of day	Helioc. long. ♄	Helioc. long. ♅	Helioc. long. ♂	Helioc long ♁	Helioc. long. ♀	Helioc. long. ☿	♄ riſes
1	1 11	15 21	6 ♓ 40	11 ♋ 11	19 ♎ 30	9 ♒ 6	5 ♍ 42	6 ♌ 34	8 a 42
7	1 31	15 3	6 52	11 41	22 18	15 31	15 11	28 17	8 20
13	1 51	14 43	7 4	12 11	25 8	21 17	24 41	23 ♓ 56	7 36
19	2 13	14 21	7 15	12 41	27 59	27 3	4 ♑ 11	24 ♈ 38	7 38
25	2 35	13 50	7 27	13 11	0 ♏ 51	2 51	13 41	0 ♊ 20	7 10

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Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☾'s node	☿'s latitude	♀'s latitude	♂'s latitude	♃'s latitude	♄'s latitude
1	1 23	10 34	2 58	14 ♐ 2	1 s 57	0 n 3	0 n 40	6 s 30	4 s 54
7	1 47	10 13	2 46	13 43	1 58	0 3	0 35	7 26	4 12
13	2 9	9 51	2 34	13 24	1 58	0 4	0 ♍ 1	7 56	2 41
19	2 29	9 31	2 25	13 5	1 59	0 5	0 27	7 56	0 57
25	2 47	9 13	2 18	12 46	2 0	0 5	0 23	7 30	0 31

M D	☉'s longitude	☽'s long.	☽'s latitude	☿'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
1	♌ 9 46 12	3♌ 9	3 s 46	9♓39	15♎45	23♍39	19♌54	12♌ 2
2	10 43 42	18 25	4 32	9 36	15 58	24 16	19 21	11 15
E	11 41 12	3♍33	4 59	9 32	16 11	24 54	18 46	10 29
4	12 38 43	18 24	5 5	9 28	16 24	25 31	18 10	9 44
5	13 36 16	2♎50	4 51	9 24	16 37	26 9	17 34	9 1
6	14 33 50	16 47	4 20	9 20	16 50	26 46	16 58	8 21
7	15 31 24	0♏15	3 36	9 16	17 2	27 24	16 22	7 46
8	16 28 59	13 16	2 41	9 12	17 15	28 2	15 46	7 15
9	17 26 35	25 53	1 41	9 8	17 27	28 40	15 9	6 49
E	18 24 12	8♐12	0 37	9 4	17 40	29 18	14 32	6 29
11	19 21 49	20 16	0 n 28	9 0	17 52	29 56	13 55	6 15
12	20 19 27	2♑12	1 30	8 56	18 5	0♎34	13 19	6 D 8
13	21 17 6	14 2	2 28	8 52	18 17	1 12	12 44	6 9
14	22 14 47	25 51	3 19	8 48	18 29	1 50	12 11	6 17
15	23 12 29	7♒42	4 2	8 44	18 42	2 28	11 40	6 32
16	24 10 12	19 36	4 34	8 39	18 54	3 6	11 10	6 54
E	25 7 56	1♓36	4 54	8 35	19 6	3 45	10 41	7 23
18	26 5 42	13 42	5 1	8 31	19 18	4 23	10 14	8 1
19	27 3 29	25 56	4 55	8 26	19 30	5 1	9 48	8 47
20	28 1 18	8♈19	4 34	8 22	19 42	5 40	9 25	9 40
21	28 59 9	20 52	4 1	8 17	19 54	6 18	9 5	10 39
22	29 57 1	3♉38	3 14	8 13	20 6	6 57	8 47	11 44
23	♍ 0 54 55	16 39	2 17	8 8	20 18	7 35	8 31	12 56
E	1 52 51	29 58	1 11	8 4	20 30	8 14	8 17	14 14
25	2 50 49	13♊37	0 s 1	7 59	20 41	8 53	8 6	15 38
26	3 48 49	27 38	1 14	7 55	20 53	9 32	7 58	17 7
27	4 46 51	12♋ 1	2 25	7 50	21 4	10 11	7 53	18 40
28	5 44 55	26 44	3 28	7 46	21 15	10 50	7 52	20 18
29	6 43 1	11♌42	4 17	7 41	21 25	11 29	7 D 52	22 0
30	7 41 9	26 47	4 49	7 37	21 35	12 8	7 52	23 44
E	8 39 18	11♍49	5 0	7 32	21 49	12 47	7 53	25 31

Days	♅ rises	♂ sets	♀ rises	☿ rises	♄'s declin.	♅'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	2m 9	9 a 8	5 m 51	5 m 2	9 s 46	22 n 35	3 n 8	8 n 42	12 n 30
7	1 52	8 50	5 6	4 6	9 56	22 26	1 34	8 51	14 17
13	1 36	8 33	4 25	3 28	10 5	22 17	0 0	9 23	16 9
19	1 20	8 18	3 47	3 11	10 15	22 7	1 s 35	10 11	17 10
25	1 4	8 2	3 15	3 21	10 26	21 58	3 10	11 1	16 40

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The Lunations.

First quarter the 7th day, at 18 minutes past 9 morning.
Full Moon the 15th day, at 10 minutes past 1 afternoon.
Last quarter the 22d day, at 38 minutes past 11 night.
New Moon the 29th day, at 45 minutes past 3 afternoon.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉
1	Giles	5 16	6 44	7 s 58	3 s 8	6 a 44	0 a 57	0 28
2	Lond. bur. 1666	5 18	6 42	7 36	8 27	7 8	1 49	0 47
3		5 20	6 40	7 14	13 10	7 33	2 41	1 7
4		5 22	6 38	6 52	17 3	8 3	3 33	1 26
5		5 23	6 37	6 29	19 56	8 38	4 25	1 46
6		5 25	6 35	6 7	21 43	9 20	5 17	2 6
☾	16 S. aft. Trin.	Enurch	6 33	5 44	22 24	10 9	6 8	2 26
8	Nativ. of V. M.	5 29	6 31	5 22	22 1	11 5	6 58	2 46
9		5 31	6 29	4 59	20 38	morn	7 47	3 7
10		5 33	6 27	4 36	18 21	0 6	8 34	3 27
11		5 35	6 25	4 13	15 19	1 11	9 19	3 48
12		5 37	6 23	3 50	11 40	2 17	10 2	4 9
13		5 39	6 21	3 27	7 31	3 23	10 45	4 30
☾	17 S. aft. Trin.	H. Cross	6 19	3 4	3 s 3	4 31	11 28	4 51
15		5 43	6 17	2 41	1 n 36	☽ rises	morn	5 12
16		5 45	6 15	2 18	6 15	6 a 9	0 12	5 33
17	Ember week	Lambert	6 13	1 55	10 42	6 31	0 57	5 54
18		5 49	6 11	1 31	14 44	6 58	1 44	6 15
19		5 51	6 9	1 8	18 7	7 28	2 33	6 36
20		5 53	6 7	0 45	20 38	8 8	3 25	6 57
☾	18 S. aft. Trin.	St. Mat.	6 5	0 21	22 2	8 57	4 20	7 18
22	K. Geo. 3. cro.	5 57	6 3	0 s 2	22 9	9 58	5 17	7 39
23		5 59	6 1	0 26	20 55	11 9	6 15	8 0
24		6 1	5 59	0 49	18 22	morn	7 14	8 20
25		6 3	5 57	1 13	14 39	0 28	8 11	8 40
26	St. Cyprian	6 4	5 56	1 36	10 0	1 50	9 6	9 0
27		6 6	5 54	1 59	4 n 46	3 13	10 0	9 20
☾	19 S. aft. Trin.	6 8	5 52	2 23	0 s 44	4 36	10 52	9 40
29	St. Mic. Prs. Ch.	6 10	5 50	2 46	6 8	☽ sets	11 44	9 59
30	[Aug. Mat. b.	St. Jer.	5 48	3 10	11 8	5 a 43	0 a 37	10 18

Days	Day decreas.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc long. ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ sets
1	3 1	13 33	7 ♓ 40	13 ♋ 46	4 ♏ 14	9 ♓ 37	24 ♓ 48	14 ♋ 8	5 m 4
7	3 25	13 9	7 52	14 16	7 9	15 27	4 ♈ 20	18 ♌ 14	4 40
13	3 49	12 45	8 3	14 46	10 6	21 18	13 53	16 ♍ 47	4 16
19	4 11	12 23	8 15	15 16	13 5	27 9	23 28	10 ♋ 24	3 52
25	4 35	11 59	8 27	15 46	16 5	8 ♈ 2	3 ♉ 3	0 ♏ 33	3 28

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Day	Day lig. begins	Day lig ends	Durat. twilig.	Pl. ☽'s node	☿'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	♄'s latitude
1	3 7	8 53	2 11	12 ♐ 24	2 s 0	0 n 6	0 n 18	6 s 40	1 n 33
7	3 24	8 36	2 6	12 4	2 1	0 7	0 14	5 49	1 48
13	3 37	8 23	2 4	11 45	2 1	0 7	0 10	4 55	1 38
19	3 52	8 8	2 1	11 26	2 1	0 8	0 6	4 1	1 11
25	4 5	7 55	2 0	11 7	2 0	0 9	0 2	3 8	0 35

M D	☉'s longitude	☽'s long.	☽'s latitude	☿'s long.	♃'s long.	♂'s long.	♀'s long.	♄'s long.
1	♍ 9 37 28	26♍39	4 s 52	7♓27	22♋ 0	13♎26	7♑57	27♑21
2	10 35 41	11♎ 7	4 24	7 23	22 11	14 5	8 3	29 13
3	11 33 55	25 8	3 42	7 18	22 23	14 44	8 12	1♍ 5
4	12 32 11	8♏40	2 47	7 14	22 33	15 24	8 23	2 58
5	13 30 28	21 45	1 46	7 9	22 44	16 3	8 37	4 52
6	14 28 47	4 ♐ 24	0 41	7 5	22 55	16 42	8 54	6 47
7	15 27 7	16 43	0 n 24	7 0	23 5	17 22	9 14	8 43
8	16 25 29	28 48	1 27	6 56	23 16	18 1	9 36	10 38
9	17 23 52	10♑42	2 25	6 51	23 26	18 41	9 59	12 32
10	18 22 17	22 32	3 16	6 47	23 36	19 21	10 23	14 26
11	19 20 44	4♒22	3 59	6 42	23 46	20 1	10 48	16 20
12	20 19 12	16 15	4 31	6 38	23 56	20 41	11 13	18 13
13	21 17 41	28 15	4 52	6 33	24 6	21 42	11 39	20 5
E	22 16 12	10♓23	5 0	6 29	24 16	22 1	12 7	21 56
15	23 14 46	22 41	4 54	6 25	24 26	22 41	12 37	23 46
16	24 13 21	5♈ 9	4 34	6 20	24 35	23 21	13 9	25 35
17	25 11 58	17 47	4 1	6 16	24 45	24 1	13 44	27 23
18	26 10 37	0♉36	3 15	6 12	24 55	24 41	14 21	29 11
19	27 9 19	13 36	2 18	6 8	25 4	25 22	15 0	0♎58
20	28 8 3	26 48	1 12	6 4	25 13	26 2	15 40	2 44
E	29 6 49	10♊13	0 2	6 0	25 22	26 43	16 20	4 29
22	♎ 0 5 37	23 52	1 s 10	5 56	25 31	27 23	17 1	6 12
23	1 4 28	7♋46	2 19	5 52	25 40	28 4	17 42	7 54
24	2 3 21	21 56	3 21	5 48	25 49	28 44	18 23	9 36
25	3 2 17	6♌21	4 12	5 44	25 58	29 25	19 5	11 17
26	4 1 15	20 57	4 46	5 40	26 6	0♏ 5	19 49	12 57
27	5 0 15	5♍39	5 2	5 36	26 15	0 46	20 34	14 36
E	5 59 18	20 20	4 58	5 33	26 23	1 27	21 20	16 15
29	6 58 23	4♎53	4 35	5 29	26 31	2 8	22 8	17 53
30	7 57 30	19 10	3 55	5 25	26 39	2 49	22 57	19 29

Day	♅ rises	♂ sets	♀ rises	☿ rises	♄'s declin.	♅'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	0 m 46	7 a 43	2m 43	4 m 0	10 s 39	21 n 46	5 s 2	11 n 51	13 n 5
7	0 30	7 28	2 26	4 42	10 49	21 36	6 37	12 22	9 5
13	0 14	7 13	2 13	sets	10 59	21 26	8 11	12 35	5 2
19	11 a 54	6 59	2 6	6 a 23	11 8	21 17	9 43	12 31	0 4
25	11 37	6 44	2 4	6 15	11 17	21 8	11 15	12 10	3 5

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The Lunations.

First quarter the 7th day, at 28 minutes past 3 morning.
Full Moon the 15th day, at 50 minutes past 3 morning.
Last quarter the 22d day, at 43 minutes past 6 morning.
New Moon the 29th day, at 29 minutes past 3 morning.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉
1	Remigius	6 14	5 46	3 s 33	15 s 24	6 a 9	1 a 29	10 37
2		6 16	5 44	3 56	18 43	6 45	2 23	10 55
3		6 18	5 42	4 20	20 57	7 25	3 16	11 13
4		6 20	5 40	4 43	22 3	8 11	4 8	11 31
E	20 S. aft. Trin.	6 22	5 38	5 6	22 1	9 5	4 59	11 48
6	Faith	6 24	5 36	5 29	20 56	10 5	5 49	12 5
7		6 26	5 34	5 52	18 56	11 8	6 37	12 22
8		6 28	5 32	6 15	16 9	morn	7 22	12 38
9	St. Denys	6 30	5 30	6 38	12 42	0 12	8 6	12 54
10	Ox & Cam. T. b.	O. Mic	Day 28	7 0	8 44	1 19	8 49	13 10
11		6 34	5 26	7 23	4 s 24	2 26	9 32	13 24
E	21 S. aft. Trin.	6 36	5 24	7 46	0 n 10	3 34	10 15	13 39
13	Tr. K. Edward	Con. 38	5 22	8 8	4 49	4 42	11 0	13 53
14		6 40	5 20	8 30	9 22	5 42	11 47	14 6
15		6 42	5 18	8 53	13 34	☽ rises	morn	14 19
16		6 44	5 16	9 15	17 11	5 a 35	0 36	14 31
17	Etheldred	6 45	5 15	9 37	19 57	6 14	1 28	14 43
18	St. Luke	6 47	5 13	9 58	21 38	6 59	2 23	14 54
E	22 S. aft. Trin.	6 49	5 11	10 20	22 3	7 59	3 20	15 4
20		6 51	5 9	10 42	21 7	8 8	4 18	15 14
21		6 53	5 7	11 3	18 52	10 21	5 16	15 23
22		6 55	5 5	11 24	15 29	11 41	6 12	15 31
23		6 57	5 3	11 45	11 12	morn	7 6	15 39
24		6 59	5 1	12 6	6 17	1 2	7 58	15 46
25	K. Geo. III. ac.	Crispin	4 59	12 27	1 n 1	2 22	8 49	15 52
E	23 S. af. Tri. K.	7 3	4 57	12 47	4 s 17	3 42	9 40	15 57
27	(Geo. III. pro.	7 4	4 56	13 7	9 19	5 2	10 31	16 2
28	St. Sim. & Jude	7 6	4 54	13 27	13 47	6 21	11 23	16 6
29		7 8	4 52	13 47	17 27	☽ sets	0 a 15	16 9
30		7 10	4 50	14 7	20 6	5 a 22	1 8	16 11
31		7 12	4 48	14 26	21 38	6 7	2 1	16 13

Days	Day decreas.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long. ♋	Helioc. long. ♀	Helioc. long. ☿	♄ sets
1	4 59	11 35	8 ♓ 38	16 ♋ 15	19 ♏ 7	8 ♈ 57	12 ♉ 39	18 ♏ 33	3 m 4
7	5 23	11 10	8 50	16 45	22 11	14 52	22 16	5 ♐ 22	2 41
13	5 45	10 48	9 2	17 15	25 17	20 49	1 ♊ 54	21 52	2 17
19	6 9	10 24	9 13	17 44	28 25	26 47	11 34	8 ♑ 46	1 54
25	6 31	10 2	9 25	18 14	1 ♐ 35	2 ♉ 46	21 14	26 51	1 30

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Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♅'s latitude	♂'s latitude	☿'s latitude	☾'s latitude
1	4 18	7 42	1 59	10 ♐ 48	2 s 0	0 n 10	0 s 1	2 s 18	0 s 7
7	4 31	7 29	1 58	10 29	2 0	0 11	0 5	1 32	0 49
13	4 43	7 17	1 57	10 10	1 59	0 11	0 9	0 50	1 30
19	4 55	7 5	1 57	9 51	1 58	0 12	0 13	0 12	2 6
25	5 6	6 54	1 58	9 32	1 58	0 13	0 16	0 22	2 34

M D	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♅'s long.	♂'s long.	☿'s long.	☾'s long.
1	♎ 8 56 38	♏ 4 38 2	5 ♓ 22	26 ♉ 47	3 ♏ 30	23 ♌ 47	♑ 4	
2	9 55 49	16 35 1 59	5 19	26 55	4 11	24 37	22 35	
3	10 55 2	29 40 0 52	5 16	27 2	4 52	25 28	24 13	
4	11 54 17	♐ 21 0 n 15	5 13	27 10	5 34	26 19	25 46	
E	12 53 33	24 43 1 21	5 10	27 17	6 15	27 11	27 19	
6	13 52 51	♑ 49 2 21	5 7	27 24	6 56	28 4	28 51	
7	14 52 11	18 45 3 15	5 4	27 31	7 38	28 57	♒ 22	
8	15 51 32	♒ 36 3 59	5 1	27 38	8 19	29 50	1 53	
9	16 50 55	12 27 4 34	4 58	27 45	9 1	♒ 43	3 23	
10	17 50 20	24 23 4 56	4 55	27 51	9 42	1 39	4 51	
11	18 49 47	♓ 28 5 6	4 53	27 58	10 24	2 35	6 19	
E	19 49 15	18 44 5 2	4 50	28 5	11 5	3 32	7 46	
13	20 48 45	♈ 13 4 44	4 47	28 11	11 47	4 30	9 13	
14	21 48 17	13 56 4 11	4 45	28 17	12 29	5 28	10 39	
15	22 47 52	26 53 3 25	4 43	28 23	13 11	6 26	12 4	
16	23 47 28	♉ 3 2 27	4 41	28 28	13 53	7 24	13 28	
17	24 47 7	23 26 1 21	4 39	28 34	14 35	8 23	14 51	
18	25 46 48	♊ 59 0 8	4 37	28 39	15 17	9 23	16 14	
E	26 46 31	20 42 1 s 6	4 35	28 44	15 59	10 22	17 36	
20	27 46 16	♋ 33 2 17	4 33	28 49	16 41	11 22	18 57	
21	28 46 4	18 33 3 20	4 31	28 54	17 23	12 23	20 16	
22	29 45 54	♌ 40 4 12	4 30	28 58	18 6	13 24	21 34	
23	♍ 0 45 47	16 52 4 49	4 28	29 3	18 48	14 26	22 51	
24	1 45 42	♍ 8 5 9	4 26	29 7	19 30	15 28	24 6	
25	2 45 39	15 25 5 9	4 25	29 11	20 13	16 31	25 20	
E	3 45 38	29 38 4 50	4 24	29 15	20 55	17 34	26 32	
27	4 45 39	♎ 43 4 14	4 23	29 18	21 38	18 37	27 43	
28	5 45 43	27 36 3 23	4 22	29 22	22 21	19 40	28 52	
29	6 45 48	♍ 12 2 21	4 21	29 25	23 4	20 44	29 59	
30	7 45 56	24 30 1 13	4 20	29 29	23 47	21 48	♐ 3	
31	8 46 5	♐ 28 0 3	4 19	29 32	24 29	22 52	2 5	

Days	♃ rises	♂ sets	♀ rises	☿ rises	♄'s declin.	♅'s declin.	♂'s declin.	☾'s declin	☿'s declin.
1	11 a 20	6 a 30	2 m 5	6 a 6	11 s 25	20 n 59	12 s 43	11 n 26	8 s 20
7	11 2	6 16	2 10	5 57	11 32	20 51	14 9	10 25	12 23
13	10 44	6 2	2 17	5 48	11 37	20 44	15 32	9 6	16 0
19	10 25	5 48	2 26	5 40	11 41	20 38	16 51	7 31	19 7
25	10 4	5 35	2 37	5 32	11 44	20 33	18 5	5 40	21 37

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The Lunations.

First quarter the 5th day, at 53 minutes past 11 at night.
Full Moon the 13th day, at 40 minutes past 5 evening.
Last quarter the 20th day, at 49 minutes past 1 afternoon.
New Moon the 27th day, at 10 minutes past 6 evening.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉
1	All Saints	7 14	4 46	14 s 45	22 s 0	6 a 59	2 a 54	16 14
W	24 S. aft. Trin.	Pr.E.b.	AllSoul	15 4	21 16	7 58	3 45	16 14
3	Prs. Sophia b.	7 19	4 43	15 23	19 33	8 59	4 33	16 13
4		7 19	4 41	15 42	17 0	10 3	5 19	16 11
5	Powder Plot.	7 21	4 39	16 0	13 46	11 9	6 4	16 9
6	Leonard. Mich	Per. b	4 38	16 18	10 0	morn	6 47	16 6
7	D. Cumberl. b.	7 24	4 36	16 35	5 49	0 13	7 29	16 2
8	Prs. Anne So. b.	7 26	4 34	16 53	1 s 22	1 18	8 11	15 57
S	25 S. aft. Trin.	7 27	4 33	17 10	3 n 13	2 27	8 54	15 51
10	Ld. Mayor's day	7 29	4 31	17 26	7 47	3 36	9 39	15 44
11	St Martin.	7 31	4 29	17 43	12 7	4 47	10 27	15 37
12		7 32	4 28	17 59	15 59	5 59	11 18	15 29
13	Britius	7 34	4 26	18 15	19 9	☽ rises	morn	15 20
14		7 36	4 24	18 30	21 11	4 a 55	0 13	15 10
15	Machutus	7 37	4 23	18 45	21 59	5 51	1 11	14 59
S	26 S. aft. Trin.	7 39	4 21	19 0	21 24	6 56	2 10	14 47
17	Hugh	7 40	4 20	19 15	19 26	8 7	3 9	14 35
18		7 42	4 18	19 29	16 14	9 30	4 6	14 21
19		7 43	4 17	19 43	12 6	10 49	5 1	14 7
20	Edmund	7 44	4 16	19 56	7 19	morn	5 54	13 52
21		7 46	4 14	20 9	2 n 10	0 9	6 44	13 36
22	Cecilia. O. Mar.	7 47	4 13	20 22	3 s 1	1 26	7 33	13 20
S	27 S. aft. Trin.	St.Cle.	4 12	20 34	8 1	2 38	8 22	13 2
24		7 50	4 10	20 46	12 33	4 1	9 12	12 44
25	D. Glos. born	Cather	4 9	20 58	16 23	5 15	10 2	12 25
26		7 52	4 8	21 9	19 19	6 28	10 54	12 5
27		7 53	4 7	21 20	21 13	☽ sets	11 46	11 45
28	Mic. Term ends	7 54	4 6	21 30	21 58	4 a 43	0 a 39	11 24
29		7 56	4 4	21 40	21 36	5 38	1 30	11 2
F	Adv. Sun. St.	Andr.	4 3	21 50	20 13	6 39	2 20	10 39

Day	Day decreas.	Length of day	Helioc. long. ♄	Helioc. long. ♅	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ☿	☽ sets
1	6 57	9 37	9♐38	18♑49	5♐18	9♎46	2♏33	2♐44	fm 2
7	7 19	9 15	9 50	19 18	8 32	15 48	12 16	14♑56	0 38
13	7 39	8 55	10 2	19 48	11 49	21 50	22 0	13♒54	0 13
19	7 58	8 36	10 13	20 17	15 7	27 54	1♎45	18♎7	11 a 49
25	8 14	8 29	10 25	20 46	18 27	3♏58	11 30	25♏40	11 24

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Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♅'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1	5 17	6 43	1 59	9♐10	1 s 57	0 n 14	0 s 20	0 n 56	2 s 49
7	5 25	6 35	2 2	8 51	1 56	0 15	0 24	1 20	2 36
13	5 34	6 26	2 3	8 32	1 55	0 16	0 27	1 40	1 40
19	5 41	6 19	2 5	8 13	1 54	0 17	0 31	1 55	0 8
25	5 48	6 12	2 7	7 53	1 53	0 18	0 34	2 5	1 57

M D	☉'s longitude.	☽'s long.	☽'s latitude	♄'s long.	♅'s long.	♂'s long.	♀'s long.	☿'s long.
1	♏ 9 46 16	20♐ 7	1 n 0	4♓18	29♋35	25♏12	23♏56	3♐ 3
E	10 46 29	2♑28	2 10	4 18	29 37	25 55	25 1	3 57
3	11 46 43	14 36	3 8	4 18	29 39	26 38	26 6	4 48
4	12 46 59	26 33	3 56	4 17	29 41	27 21	27 12	5 36
5	13 47 16	8♒26	4 34	4 17	29 43	28 5	28 18	6 18
6	14 47 35	20 17	5 0	4 D 17	29 45	28 48	29 24	6 54
7	15 47 55	2♓14	5 13	4 17	29 47	29 31	0♋30	7 26
8	16 48 16	14 19	5 13	4 17	29 48	0♐14	1 37	7 51
E	17 48 39	26 38	4 59	4 18	29 50	0 58	2 44	8 7
10	18 49 3	9♈13	4 20	4 18	29 51	1 41	3 51	8 16
11	19 49 29	22 6	3 46	4 18	29 52	2 24	4 58	8℞17
12	20 49 56	5♉19	2 50	4 19	29 53	3 7	6 5	8 7
13	21 50 25	18 50	1 43	4 19	29 54	3 51	7 13	7 47
14	22 50 55	2♊38	0 29	4 20	29 54	4 34	8 21	7 17
15	23 51 27	16 39	0 s 49	4 21	29 55	5 18	9 29	6 37
E	24 52 1	0♋50	2 4	4 22	29℞55	6 2	10 38	5 46
17	25 52 37	15 6	3 12	4 23	29 55	6 46	11 46	4 46
18	26 53 14	29 25	4 9	4 24	29 54	7 30	12 55	3 39
19	27 53 53	13♌42	4 49	4 25	29 53	8 14	14 4	2 23
20	28 54 34	27 55	5 12	4 26	29 52	8 58	15 13	1 5
21	29 55 17	12♍2	5 16	4 28	29 51	9 43	16 23	29♍44
22	♐ 0 56 1	26 0	5 1	4 29	29 49	10 26	17 32	28 19
E	1 56 47	9♎48	4 29	4 31	29 48	11 10	18 42	26 59
24	2 57 35	23 25	3 42	4 33	29 46	11 55	19 51	25 43
25	3 58 24	6♏50	2 44	4 35	29 44	12 39	21 1	24 45
26	4 59 15	20 1	1 37	4 37	29 42	13 23	22 11	23 51
27	6 0 7	2♐58	0 27	4 39	29 40	14 8	23 22	23 8
28	7 1 0	15 41	0 n 43	4 41	29 37	14 52	24 32	22 35
29	8 1 54	28 10	1 50	4 43	29 35	15 37	25 43	22 14
E	9 2 50	10♑26	2 51	4 45	29 32	16 21	26 53	22 D 5

Days	♃ rises	♂ sets	♀ rises	☿ sets	♄'s declin.	♅'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	9 a 38	5 a 21	2 a 50	5 23	11 s 45	20 n 30	19 s 45	3 n 16	23 s 33
7	9 16	5 7	3 2	5 14	11 45	20 28	20 27	1 1	24 8
13	8 52	4 55	3 15	4 58	11 44	20 28	21 23	1 21	23 16
19	8 27	4 44	3 28	4 30	11 41	20 25	22 12	3 47	20 32
25	8 0	4 33	3 41	3 48	11 36	20 32	22 54	6 17	17 4

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The Lunations.

First quarter the 5th day, at 46 past 8 night.
Full Moon the 13th day, at 22 minutes past 6 morning.
Last quarter the 19th day, at 4 minutes past 10 night
New Moon the 27th day, at 31 minutes past 11 morning.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉
1		7 58	4 2	21 s 59	17 s 55	7 a 45	3 a 7	10 16
2		7 59	4 1	22 8	14 52	8 49	3 52	9 52
3		8 0	4 0	22 16	11 15	9 55	4 35	9 28
4		8 0	4 0	22 24	7 13	10 58	5 17	9 3
5		8 1	3 59	22 31	2 s 53	morn	5 58	8 38
6	Nicholas	8 2	3 58	22 38	1 n 36	0 3	6 39	8 12
E	2 S. in Advent	8 3	3 57	22 45	6 6	1 9	7 22	7 45
8	Conception	8 4	3 56	22 51	10 28	2 18	8 7	7 19
9		8 4	3 56	22 56	14 30	3 27	8 56	6 51
10		8 5	3 55	23 2	17 56	4 40	9 49	6 24
11		8 5	3 55	23 6	20 28	5 53	10 45	5 56
12		8 6	3 54	23 11	21 50	7 2	11 44	5 28
13	Lucy	8 6	3 54	23 14	21 48	☽ rises	morn	4 59
E	3 S. in Advent	8 7	3 53	23 18	20 16	5 a 41	0 44	4 30
15		8 7	3 53	23 21	17 23	7 2	1 44	4 1
16	O. Sap. Cam. Te.	8 7	3 53	23 23	13 22	8 23	2 42	3 31
17	Em. WOx. T. e.	8 8	3 52	23 25	8 36	9 47	3 38	3 2
18		8 8	3 52	23 26	3 n 25	11 6	4 31	2 32
19		8 8	3 52	23 27	1 s 51	morn	5 21	2 2
20		8 8	3 52	23 28	6 56	0 23	6 10	1 32
E	4 S. in Adv. S.	Shor. d.	3 52	23 28	11 33	1 38	6 58	1 2
22	(Thom.	8 8	3 52	23 27	15 32	2 53	7 47	0 32
23		8 8	3 52	23 27	18 40	4 5	8 37	0 2
24		8 8	3 52	23 25	20 48	5 12	9 28	obe. 28
25	Christmas day	8 7	3 53	23 23	21 53	6 16	10 19	0 58
26	St. Stephen	8 7	3 53	23 21	21 51	7 7	11 11	1 28
27	St. John	8 7	3 53	23 18	20 46	☽ sets	0 a 1	1 58
E	1 S. aft. Chris.	8 6	3 54	23 15	18 43	5 a 16	0 48	2 28
29	(Innocen.	8 6	3 54	23 11	15 54	6 21	1 34	2 57
30		8 5	3 55	23 7	12 27	7 27	2 18	3 26
31	Silvester	8 5	3 55	23 2	8 32	8 32	3 0	3 55

Days	Day decreas.	Length of day	Helioc. long. ♄	Helioc. long. ♅	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ☿	♄ sets
1	8 28	8 6	10 ♓ 37	21 ♋ 16	21 ♐ 49	10 ♑ 4	21 ♌ 16	1 ♌ 59	10 a 58
7	8 40	7 54	10 48	21 46	25 14	16 10	1 ♍ 1	3 ♍ 20	10 34
13	8 46	7 48	11 0	22 16	28 40	22 16	10 47	29 15	10 9
19	8 50	7 44	11 12	22 45	2 ♑ 8	28 23	20 31	20 ♎ 57	9 45
25	oinc. 2	7 46	11 23	23 14	5 39	4 ♋ 30	0 ♎ 15	9 ♍ 52	9 21

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Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	☿'s latitude	♀'s latitude	♂'s latitude	♃'s latitude	♄'s latitude	♅'s latitude
1	5 54	6 6	2 8	7 ♐ 34	1 s 52	0 n 20	0 s 37	2 n 12	2 n 40	
7	5 57	6 3	2 10	7 15	1 51	0 21	0 40	2 14	2 27	
13	5 59	6 1	2 12	6 56	1 51	0 22	0 43	2 13	1 48	
19	6 1	5 59	2 11	6 37	1 50	0 23	0 46	2 8	1 2	
25	6 1	5 59	2 11	6 18	1 50	0 24	0 49	2 0	0 15	

M D	☉'s longitude	☽'s long.	☽'s latitude	☿'s long.	♀'s long.	♂'s long.	♃'s long.	♄'s long.	♅'s long.
1	♐ 10 3 46	22♑31	3 n 43	4 ♐ 48	29 ♑ 20	17 ♐ 6	28 ♎ 4	22 ♏ 7	
2	11 4 44	4♒29	4 25	4 50	29 26	17 50	29 15	22 19	
3	12 5 42	16 21	4 55	4 53	29 22	18 35	0 ♏ 26	22 39	
4	13 6 41	28 12	5 13	4 56	29 19	19 20	1 37	23 8	
5	14 7 40	10 ♓ 7	5 17	4 59	29 15	20 4	2 49	23 44	
6	15 8 40	22 10	5 7	5 2	29 11	20 49	4 0	24 27	
E	16 9 41	4 ♈ 27	4 44	5 5	29 7	21 34	5 11	25 18	
8	17 10 42	17 0	4 6	5 8	29 3	22 19	6 23	26 14	
9	18 11 43	29 55	3 15	5 11	28 58	23 4	7 34	27 13	
10	19 12 45	13 ♉ 12	2 13	5 15	28 54	23 49	8 46	28 14	
11	20 13 48	26 55	1 0	5 18	28 49	24 34	9 57	29 19	
12	21 14 52	11 ♊ 1	0 s 17	5 21	28 44	25 19	11 9	0 ♐ 28	
13	22 15 56	25 26	1 36	5 25	28 39	26 4	12 21	1 42	
E	23 17 1	10 ♋ 6	2 49	5 29	28 34	26 49	13 33	2 57	
15	24 18 6	24 53	3 51	5 33	28 28	27 35	14 45	4 13	
16	25 19 12	9 ♌ 40	4 39	5 37	28 23	28 20	15 58	5 31	
17	26 20 19	24 19	5 7	5 41	28 17	29 6	17 10	6 51	
18	27 21 27	8 ♍ 46	5 15	5 45	28 11	29 51	18 22	8 13	
19	28 22 35	22 57	5 4	5 49	28 5	0 ♐ 37	19 35	9 36	
20	29 23 44	6 ♎ 50	4 36	5 53	27 59	1 23	20 47	11 0	
E	♐ 0 24 54	20 24	3 51	5 57	27 52	2 8	22 0	12 24	
22	1 26 5	3 ♏ 41	2 57	6 2	27 46	2 54	23 13	13 49	
23	2 27 16	16 43	1 53	6 6	27 39	3 39	24 26	15 15	
24	3 28 28	29 30	0 45	6 10	27 32	4 25	25 39	16 42	
25	4 29 40	12 ♐ 6	0 n 24	6 15	27 26	5 11	26 52	18 9	
26	5 30 53	24 30	1 31	6 20	27 19	5 56	28 5	19 37	
27	6 32 6	6 ♑ 46	2 32	6 25	27 12	6 42	29 18	21 6	
E	7 33 19	18 53	3 26	6 30	27 5	7 28	0 ♑ 31	22 35	
29	8 34 32	0 ♒ 53	4 10	6 35	26 58	8 14	1 44	24 5	
30	9 35 45	12 48	4 43	6 40	26 51	9 0	2 57	25 35	
31	10 36 58	24 40	5 4	6 45	26 43	9 46	4 10	27 5	

Days	♅ rises	♂ sets	♀ rises	☿ rises	♄'s declin.	♅'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	7 ♐ 33	4 ♐ 22	3 m 55	6 m 6	11 s 30	20 n 36	23 s 27	8 s 45	15 s 45
7	7 41	4 12	4 9	6 0	11 23	20 42	23 52	11 9	16 44
13	6 35	4 3	4 22	6 11	11 15	20 48	24 7	13 2	18 45
19	6 6	3 54	4 36	6 32	11 6	20 56	24 14	15 36	20 54
25	5 36	3 49	4 51	6 52	10 56	21 5	24 11	17 32	22 41

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Time of High-Water at LONDON in the morning and after noon of every day in the year.

Day of Month	JANUARY morn. h	JANUARY morn. m	JANUARY aftern. h	JANUARY aftern. m	FEBRUARY morn. h	FEBRUARY morn. m	FEBRUARY aftern. h	FEBRUARY aftern. m	MARCH morn. h	MARCH morn. m	MARCH aftern. h	MARCH aftern. m	APRIL morn. h	APRIL morn. m	APRIL aftern. h	APRIL aftern. m	Day of Month
1	7	43	8	12	8	57	9	30	8	23	8	55	9	54	10	24	1
2	8	40	9	11	10	3	10	35	9	28	10	0	10	52	11	21	2
3	9	46	10	16	11	6	11	36	10	31	11	0	11	48			3
4	10	48	11	19			0	6	11	29	11	57	0	15	0	39	4
5	11	50			0	33	0	58			0	23	1	4	1	26	5
6	0	19	0	45	1	22	1	44	0	47	1	10	1	51	2	15	6
7	1	11	1	36	2	6	2	29	1	33	1	55	2	37	2	58	7
8	2	1	2	24	2	37	3	2	2	17	2	38	3	16	3	33	8
9	2	43	3	0	3	16	3	30	2	55	3	10	3	56	4	8	9
10	3	15	3	29	3	44	3	57	3	26	3	42	4	31	4	54	10
11	3	43	3	56	4	13	4	29	3	58	4	13	5	14	5	43	11
12	4	11	4	25	4	37	5	6	4	32	4	55	6	11	6	43	12
13	4	41	4	58	5	26	5	48	5	18	5	42	7	13	7	47	13
14	5	14	5	32	6	16	6	45	6	11	6	42	8	20	8	55	14
15	5	52	6	16	7	17	7	49	7	13	7	47	9	30	10	5	15
16	6	41	7	5	8	28	9	8	8	23	9	2	10	38	11	9	16
17	7	39	8	11	9	48	10	29	9	40	10	20	11	41			17
18	8	46	9	27	11	8	11	46	10	56	11	31	0	11	0	30	18
19	10	7	10	47			0	24			0	4	1	3	1	29	19
20	11	27			0	54	1	22	0	32	1	0	1	53	2	18	20
21	0	6	0	41	1	48	2	15	1	26	1	52	2	42	3	2	21
22	1	15	1	47	2	40	3	0	2	17	2	39	3	18	3	35	22
23	2	17	2	42	3	16	3	31	2	58	3	15	3	52	4	7	23
24	3	3	3	22	3	47	4	2	3	31	3	48	4	24	4	43	24
25	3	38	3	55	4	20	4	30	4	3	4	23	5	2	5	2	25
26	4	9	4	29	4	59	5	19	4	41	5	1	5	44	6	7	26
27	4	47	5	5	5	38	6	2	5	20	5	42	6	31	6	55	27
28	5	23	5	45	6	28	6	54	6	6	6	31	7	20	7	46	28
29	6	8	6	33	7	21	7	51	6	58	7	24	8	12	8	42	29
30	6	58	7	25					7	53	8	21	9	11	9	39	30
31	7	53	8	25					8	54	9	24					31

This Table may serve the following Places, by adding

	h	m
For Tinmouth Haven, Hartle-pool, *and* Amsterdam	0	30
Breft	1	0
Scilly	1	45
Mount's Bay	1	55
Bridlington Pier *and* Humber	2	0

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Time of High-Water at London in the morning and afternoon of every day in the year.

No. Days	May morn. h	May morn. m	May aftern. h	May aftern. m	June morn h	June morn m	June aftern. h	June aftern. m	July morn. h	July morn. m	July aftern. h	July aftern. m	August morn. h	August morn. m	August aftern. h	August aftern. m	No. Days
1	10	7	10	30	11	23	11	55	11	59			1	23	1	53	1
2	11	5	11	36			0	28	0	34	1	8	2	21	2	47	2
3			0	6	0	59	1	30	1	42	2	13	3	7	3	25	3
4	0	33	0	58	2	1	2	32	2	40	3	4	3	41	3	57	4
5	1	25	1	52	2	52	3	18	3	24	3	42	4	15	4	34	5
6	2	19	2	46	3	30	3	57	4	1	4	17	4	53	5	12	6
7	3	8	3	27	4	18	4	39	4	36	4	57	5	33	5	56	7
8	3	47	4	5	5	0	5	21	5	16	5	36	6	21	6	48	8
9	4	27	4	51	5	44	6	9	6	0	6	25	7	16	7	44	9
10	5	14	5	38	6	34	7	1	6	50	7	17	8	16	8	49	10
11	6	5	6	34	7	27	7	56	7	45	8	15	9	23	9	59	11
12	7	2	7	31	8	26	8	57	8	47	9	21	10	30	11	0	12
13	8	2	8	34	9	29	10	2	9	54	10	28	11	31			13
14	9	6	9	38	10	33	11	4	11	0	11	32	0	2	0	29	14
15	10	9	10	30	11	35					0	2	0	53	1	17	15
16	11	10	11	41	0	6	0	35	0	30	0	57	1	38	2	1	16
17			0	10	1	1	1	27	1	22	1	47	2	22	2	39	17
18	0	37	1	4	1	52	2	17	2	10	2	31	2	56	3	11	18
19	1	29	1	55	2	40	2	59	2	50	3	7	3	25	3	39	19
20	2	21	2	44	3	15	3	38	3	20	3	34	3	52	4	7	20
21	3	2	3	19	3	44	3	58	3	47	4	0	4	22	4	39	21
22	3	35	3	51	4	11	4	27	4	12	4	27	4	59	5	18	22
23	4	5	4	24	4	44	5	0	4	44	5	0	5	39	6	5	23
24	4	42	4	59	5	17	5	35	5	18	5	37	6	32	7	1	24
25	5	16	5	35	5	53	6	14	5	59	6	23	7	33	8	9	25
26	5	55	6	16	6	37	7	0	6	49	7	17	8	48	9	27	26
27	6	40	7	2	7	25	7	53	7	48	8	23	10	8	10	48	27
28	7	25	7	50	8	23	8	56	9	0	9	38	11	26			28
29	8	18	8	46	9	31	10	6	10	18	10	58	0	2	0	35	29
30	9	16	9	46	10	43	11	21	11	38			1	5	1	35	30
31	10	18	10	50					0	10	0	50	2	4	2	30	31

Adding	h	m
For Fowey, Loo *and* Plymouth	3	10
Dartmouth, Harborough *and* Hull	3	30
Torbay *and* Tinmouth	3	40
Exmouth, Topsham *and* Lime	3	50
Weymouth	4	20
Bridgewater *and* Texel	4	40
Portland and Hartflew	5	50

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Time of High-Water at LONDON in the morning and afternoon of every day in the year.

Day	SEPTEMBER morn. h	m	aftern. h	m	OCTOBER morn. h	m	aftern. h	m	NOVEMBER morn. h	m	aftern. h	m	DECEMBER morn. h	m	aftern. h	m	Mo. Day
1	2	5	3	8	3	13	3	29	4	8	4	25	4	18	4	36	1
2	3	26	3	42	3	47	4	3	4	44	5	5	4	53	5	10	2
3	3	59	4	15	4	23	4	43	5	25	5	44	5	28	5	46	3
4	4	34	4	55	5	3	5	22	6	7	6	31	6	6	6	29	4
5	5	15	5	37	5	45	6	10	6	55	7	19	6	51	7	13	5
6	6	2	6	24	6	35	7	3	7	44	8	12	7	37	8	2	6
7	6	55	7	23	7	30	8	0	8	40	9	7	8	30	8	57	7
8	7	53	8	25	8	28	8	57	9	35	10	3	9	27	9	59	8
9	8	57	9	31	9	27	9	57	10	30	10	58	10	29	11	0	9
10	10	2	10	33	10	25	10	52	11	27	11	56	11	34			10
11	11	2	11	31	11	20	11	40			0	20	0	8	0	38	11
12	11	57					0	13	0	50	1	16	1	8	1	39	12
13	0	22	0	46	0	36	1	1	1	42	2	9	2	9	2	35	13
14	1	8	1	31	1	24	1	48	2	36	2	58	2	59	3	21	14
15	1	52	2	14	2	12	2	33	3	18	3	36	3	39	3	59	15
16	2	36	2	53	2	54	3	12	3	55	4	17	4	16	4	36	16
17	3	8	3	24	3	29	3	46	4	37	5	0	4	59	5	21	17
18	3	39	4	9	4	3	4	24	5	21	5	46	5	43	6	7	18
19	4	9	4	27	4	45	5	8	6	12	6	40	6	33	7	0	19
20	4	4	5	10	5	31	6	0	7	9	7	38	7	26	7	56	20
21	5	33	6	0	6	28	6	58	8	0	8	40	8	26	8	58	21
22	6	29	6	59	7	29	8	2	9	12	9	45	9	31	10	4	22
23	7	37	8	8	8	36	9	11	10	18	10	50	10	37	11	10	23
24	8	47	9	25	9	46	10	19	11	22	11	52	11	42			24
25	10	3	10	38	10	52	11	25			0	22	0	12	0	41	25
26	11	1	11	47	11	57			0	51	1	18	1	9	1	35	26
27			0	20	0	26	0	54	1	46	2	11	2	1	2	26	27
28	0	49	1	16	1	21	1	47	2	35	2	56	2	45	3	2	28
29	1	44	2	9	2	13	2	38	3	14	3	30	3	18	3	32	29
30	2	33	2	54	3	3	3	15	3	57	4	1	3	46	4	0	30
31					3	33	3	50					4	15	4	30	31

Subtracting	h	m
For Leigh, Maes, *and* Gouries Gut — — — —	0	5
Gravesend, Rochester, *and* Rammekins — — — —	1	20
Buoy of the Nore *and* Flushing — — — —	1	30
Portsmouth, Ostend, Shoe-Becon, *and* Red-Sand —	2	0
Harwich, Dover, Spithead, *and* Calais — — —	3	0
Gunfleet, Hastings, Shoreham, Orfordness, *and* Diep —	4	0
Yarmouth Pier *and* Needle — — — — —	4	40
St. Helen's *and* Havre-de-Grace — — — — —	5	30

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IN the courſe of this year there will happen only two eclipſes, viz. of the Sun, and none of the Moon. As follows:

I. June 4th, ⊙ eclipſed, viſible.

	h	m
Beginning — —	7	24½ morning.
Middle — —	8	11
End — —	9	0

Digits eclipſed 3° 59′ on the Sun's ſouthern limb.
The Moon makes the firſt impreſſion on the Solar Diſc at 96° from the Sun's vertex on the right hand.

II. Nov. 27th, ⊙ eclipſed, inviſible.

The conjunction at 6h. 10m. in longitude 8ˢ 6° 16′; the moon's latitude 9′ ſouth.

The ſun will be centrally eclipſed on the meridian at 6h 13m in longitude 93° 15′ weſt, and latitude 30°½ ſouth.

	Obliquity of the Ecliptic.	Equation of the Equinoctial Points.
Jan. 1.	23° 27′ 59″.4	+ 18″.0
April 1.	23 27 58.5	+ 17.8
July 1.	23 27 57.6	+ 17.4
Oct. 1.	23 27 56.7	+ 17.0
Dec. 31.	23 27 55.8	+ 16.4

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The Eclipses of Jupiter's

JANUARY				FEBRUARY				MARCH				APRIL			
Emerſions				Emerſions				Emerſions				Emerſions			
2	13	7	41	1	15	6	34	2	17	18	11	1	19	37	17
4	7	35	31	3	9	35	8	4	11	47	26	3	14	6	40
6	2	3	24	5	4	3	46	6	6	16	42	5	8	36	2
7	20	31	18	6	22	32	26	8	0	45	59	7	3	5	23
9	14	59	14	8	17	1	9	9	19	15	17	8	21	34	43
11	9	27	12	10	11	29	55	11	13	44	37	10	16	4	3
13	3	55	15	12	5	58	43	13	8	13	58	12	10	33	22
14	22	23	18	14	0	27	35	15	2	43	20	14	5	2	39
16	16	51	26	15	18	56	28	16	21	12	43	15	23	31	56
18	11	19	36	17	13	25	25	18	15	42	5	17	18	1	11
20	5	47	47	19	7	54	26	20	10	11	29	19	12	30	25
22	0	16	1	21	2	23	25	22	4	40	53	21	6	59	37
23	18	44	20	22	20	52	30	23	23	10	17	23	1	28	48
25	13	12	43	24	15	21	32	25	17	39	41	24	19	57	57
27	7	41	6	26	9	50	41	27	12	9	6	26	14	27	6
29	2	9	33	28	4	19	48	29	6	38	29	28	8	56	12
30	20	38	0	29	22	48	59	31	1	7	54	30	3	25	16

MAY				JUNE	JULY	AUGUST			
Emerſions						Immerſions			
1	21	54	18			1	20	25	53
3	16	23	17			3	14	54	39
5	10	52	15			5	9	23	25
7	5	21	12	The Eclipſes of Jupiter's Satellites will not be viſible this month, Jupiter being too near the Sun.	The Eclipſes of the Satellites of Jupiter will not be viſible this month, Jupiter being too near the Sun.	7	3	52	12
8	23	50	6			8	22	21	1
10	18	18	59			10	16	49	49
12	12	47	50			12	11	18	42
14	7	16	38			14	5	47	34
16	1	45	26			16	0	16	28
17	20	14	10			17	18	45	24
19	14	42	54			19	13	14	20
21	9	11	36			21	7	43	17
23	3	40	14			23	2	12	15
24	22	8	51			24	20	41	15
26	16	37	29			26	15	10	16
28	11	6	2			28	9	39	18
30	5	34	35			30	4	8	20
						31	12	37	22

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first Satellite for 1788.

September				October				November				December			
Immerſions				Immerſions				Immerſions				Immerſions			
2	17	6	27	1	0	51	14	1	21	27	44	1	23	23	36
4	11	35	32	2	19	20	10	3	15	56	3	3	17	51	11
6	6	4	36	4	13	49	6	5	10	24	20	5	12	18	49
8	0	33	40	6	8	18	1	7	4	52	35	7	6	46	27
9	19	2	45	8	2	46	55	8	23	20	48	9	1	14	0
11	13	31	50	9	21	15	46	10	17	48	57	10	19	41	35
13	8	0	55	11	15	44	37	12	12	17	5	12	14	9	9
15	2	29	59	13	10	13	23	14	6	45	9	14	8	36	42
16	20	59	5	15	4	42	9	16	1	13	11	16	3	4	16
18	15	28	8	16	23	10	52	17	19	41	11	17	21	31	48
20	9	57	11	18	17	39	34	19	14	9	7	19	15	59	20
22	4	26	14	20	12	8	13	21	8	37	1	21	10	26	51
23	22	55	16	22	6	36	50	23	3	4	52	23	4	54	23
25	17	24	17	24	1	5	25	24	21	32	40	24	23	21	54
27	11	53	17	25	19	33	58	26	16	0	27	26	17	49	27
29	6	22	17	27	14	2	27	28	10	28	10	28	12	17	2
				29	8	30	56	30	4	55	52	30	6	44	34
				31	2	59	21								

The Times of the Eclipſes contained in this Table, are adapted to the Meridian of the Royal Obſervatory at Greenwich, and afford an excellent Method to diſcover the Longitude, or Difference of Meridians, between that and any other Place; which I ſhall illuſtrate by an EXAMPLE:

Suppoſe on the 28th Day of December of this Year, the Time of the Emerſion of Jupiter's firſt Satellite be obſerved (by a Teleſcope) in an unknown Meridian, to happen at 14 h. 5 min. 22 ſec. at night; I find by the Table, that the Time of this Emerſion will happen at the Britiſh Obſervatory, at 12 h. 17 min. 2 ſec. the ſame day; The Difference of the Times is 1 hour 48 min. 20 ſec. which being converted into Degrees and Minutes of the Equator, will make 27 deg. 5 min. the Longitude of the Place of Obſervation, to the Eaſt, becauſe the Time is more than that at the Britiſh Obſervatory.

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Speculum Phænomenorum

January

6 ☾ in perigeo
6 ☿ ☾ 2h.
7 ☌ ☉ ♂ 9h.
9 ♃ ♀ ☾ 20h.
9 ☿ in ♉
11 ☿ ♄ ☾ 6h.
19 ☿ ♃ ☾ 14h.
19 ☉ in ♒ 18h. 48m.
20 ☿ in aphelio
20 ☾ in apogeo
21 ☿ ♂ ☾ 6h.

February

2 ☾ in perigeo
6 ☿ ☿ ☾ 10h.
7 ☿ ♄ ☾ 18h.
9 ☿ ♀ ☾ 4h.
10 ♃ ſtationary
11 ☿ ☉ ☿ 17h.
15 ☿ ♃ ☾ 21h.
16 ♂ ſtationary
16 ☾ in apogeo
17 ☿ ♂ ☾ 9h.
18 ☉ in ♓ 9h. 38m.
19 ☿ ☉ ♄ 20h.
28 ☿ in ♉
29 ☾ in perigeo

March

4 ☿ in perihelio
6 ☿ ♄ ☾ 7h.
7 □ ☉ ♃ 1h.
9 ☿ ☿ ☾ 0h.
10 ☿ ♀ ☾ 7h.
10 ♀ in ♉
10 ☿ elong. max.
14 ☿ ♃ ☾ 5h.
14 ☾ in apogeo
15 ☿ ♂ ☾ 23h.
17 ☿ ſtationary
19 ☉ in ♈ 10h. 3m.
25 ☿ ☉ ☿ 23h.
27 ☾ in perigeo

April

2 ☿ ♄ ☾ 21h.
4 ☿ ☿ ☾ 17h.
6 ☿ in ♉
9 ☿ ♀ ☾ 4h.
9 ☿ ſtationary
10 ☿ ♃ ☾ 17h.
10 ♀ in perihelio
10 ☾ in apogeo
11 □ ☉ ♂ 12h.
12 ☿ ♂ ☾ 22h.
13 ♂ in aphelio
18 ☉ in ♉ 22h. 47m.
22 ☿ elong. max.
23 ☾ in perigeo
30 ♂ ♄ ☽ 11h.

May

3 ☿ ☿ ☾ 15h.
7 ☾ in apogeo
8 ☿ ♃ ☾ 9h.
8 ☿ ♀ ☾ 19h.
11 ☿ ♂ ☾ 2h.
19 ☉ in ♊ 23h. 21m.
21 ☾ in perigeo
27 ☿ ♄ ☾ 23h.
27 ☿ in ♋
30 ☿ ☉ ☿ 14h.
30 ♀ elong. max.
31 ☿ in perihelio
31 □ ☉ ♄ 2h.

June

3 ☉ eclipſed, viſible
4 ☾ in apogeo
4 ☿ ☿ ☾ 7h.
5 ☿ ♃ ☾ 3h.
7 ☿ ♀ ☾ 3h.
8 ☿ ♂ ☾ 10h.
17 ♃ in ♉
17 ☾ in perigeo
19 ♄ ſtationary
20 ☉ in ♋ 8h. 2m.
24 ☿ ♄ ☾ 2h.
29 ☿ ☉ ♃ 3h.
30 ♀ in ♉

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ad Annum 1788.

July

1	☾ in apogeo
3	☌ ♃ ☾ 0h.
3	☿ in ♉
4	☿ elong. max.
5	☌ ☿ ☾ 1h.
5	☌ ♀ ☾ 19h.
6	☌ ♂ ☾ 21h.
14	☿ in aphelio
14	☾ in perigeo
17	♀ stationary
20	☿ stationary
21	☌ ♄ ☾ 11½h.
21	☉ in ♌ 18h. 53m.
28	☾ in apogeo
30	☌ ♃ ☾ 20h.
31	♀ in aphelio

August

1	☌ ☿ ☾ 13h.
2	☌ ♀ ☾ 2h.
4	☌ ♂ ☾ 12h.
7	☌ ☉ ♀ 13h.
10	☾ in perigeo
12	☿ stationary
17	☌ ♄ ☾ 14h.
19	☿ elong. max.
22	☿ in ♌
22	☉ in ♍ 1h. 14m.
25	☾ in apogeo
27	☌ ♃ ☾ 14½h.
27	☿ in perihelio
28	☌ ♀ ☾ 18h.
29	☌ ☿ ☾ 18h.
29	☍ ☉ ♄ 22h.
29	♀ stationary

September

2	☌ ♂ ☾ 5h.
6	☾ in perigeo
13	☌ ♄ ☾ 16h.
14	☌ ☉ ☿ 10h.
21	☾ in apogeo
21	☉ in ♎ 21h. 42m.
24	☌ ♃ ☾ 7h.
25	☌ ♀ ☾ 21h.
27	♂ in ♉
30	☌ ☿ ☾ 0h.
30	☿ in ♉

October

1	☌ ♂ ☾ 1h.
3	☾ in perigeo
10	☿ in aphelio
10	☌ ♄ ☾ 21h.
18	☾ in apogeo
19	♀ elong. max.
21	♀ in ♌
21	□ ☉ ♃ 3h.
21	☌ ♃ ☾ 18h.
22	☉ in ♏ 5h. 39m.
25	☌ ♀ ☾ 2h.
29	☌ ♂ ☾ 21h.
30	☌ ☿ ☾ 13h.
31	☿ elong. max.
31	☾ in perigeo

November

6	♄ stationary
7	☌ ♄ ☾ 4h.
11	☿ stationary
14	☾ in apogeo
16	♃ stationary
18	☿ in ♌
18	☌ ♃ ☾ 1h.
20	□ ☉ ☿ 21h.
21	☉ in ♐ 1h. 52m.
23	☿ in perihelio
23	☌ ♀ ☾ 18h.
25	□ ☉ ♄ 15h.
26	☌ ☿ ☾ 7h.
27	☌ ♂ ☾ 21h.
27	☉ eclipsed, invisible
27	☾ in perigeo
30	♀ in perhelio
30	☿ stationary

December

4	☌ ♄ ☾ 13½h.
10	☿ elong. max.
11	☾ in apogeo
15	☌ ♂ ☾ 0h.
20	☉ in ♑ 14h. 14m.
23	☌ ♀ ☾ 16h.
24	☾ in perigeo
25	☌ ☿ ☾ 14h.
27	☿ in ♉
27	☌ ♂ ☾ 0h.
27	☌ ☉ ♂ 17h.

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A Table of the Sun's semi-diurnal Arches, or Times

The Sun's Declination North.

Degr.	Lat. 49		Lat. 50		Lat. 51		Lat. 52		Lat. 53		Lat. 54	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	6	8	6	8	6	8	6	9	6	9	6	9
2	6	12	6	13	6	13	6	14	6	14	6	15
3	6	17	6	18	6	18	6	19	6	19	6	29
4	6	22	6	22	6	22	6	24	6	25	6	25
5	6	26	6	27	6	27	6	29	6	30	6	31
6	6	31	6	32	6	33	6	34	6	36	6	37
7	6	36	6	37	6	38	6	40	6	41	6	43
8	6	41	6	42	6	43	6	45	6	47	6	48
9	6	45	6	47	6	48	6	50	6	52	6	54
10	6	50	6	52	6	54	6	56	6	58	7	0
11	6	55	6	57	6	59	7	1	7	3	7	6
12	7	0	7	2	7	4	7	7	7	9	7	12
13	7	5	7	7	7	10	7	12	7	15	7	18
14	7	10	7	13	7	15	7	18	7	21	7	24
15	7	15	7	18	7	21	7	24	7	27	7	31
16	7	21	7	24	7	27	7	30	7	33	7	37
17	7	26	7	29	7	33	7	36	7	40	7	44
18	7	31	7	35	7	38	7	42	7	46	7	51
19	7	37	7	41	7	45	7	49	7	53	7	58
20	7	43	7	47	7	51	7	55	8	0	8	5
21	7	49	7	53	7	57	8	2	8	7	8	12
22	7	55	7	59	8	4	8	9	8	14	8	20
23	8	1	8	6	8	11	8	16	8	22	8	28
24	8	7	8	12	8	18	8	24	8	30	8	36

By these Tables the Times of the Sun's Rising and Setting may be found, in any Part of the Kingdom of *Great-Britain* or *Ireland*, after the following Manner: Where the Latitude of the Place is known, take the Sun's Declination out of the Table, on the Noon of the Day you desire to know the Time of his Rising and Setting; and with it, according as it is either North or South, enter these Tables in the Left-

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of his visible half Duration above the Horizon.

The Sun's Declination South.

Degr.	Lat. 49		Lat. 50		Lat. 51		Lat. 52		Lat. 53		Lat. 54	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	5	59	5	59	5	58	5	58	5	58	5	58
2	5	54	5	54	5	53	5	53	5	53	5	53
3	5	49	5	49	5	49	5	48	5	48	5	47
4	5	45	5	44	5	44	5	43	5	42	5	42
5	5	40	5	39	5	39	5	38	5	37	5	36
6	5	35	5	35	5	34	5	33	5	31	5	30
7	5	31	5	30	5	29	5	27	5	26	5	25
8	5	26	5	25	5	23	5	22	5	21	5	19
9	5	21	5	20	5	18	5	17	5	16	5	13
10	5	17	5	15	5	13	5	11	5	10	5	8
11	5	12	5	10	5	8	5	6	5	4	5	2
12	5	7	5	5	5	3	5	0	4	58	4	56
13	5	2	5	0	4	57	4	55	4	52	4	50
14	4	57	4	54	4	52	4	49	4	47	4	44
15	4	52	4	49	4	46	4	44	4	41	4	37
16	4	46	4	45	4	41	4	38	4	34	4	31
17	4	41	4	38	4	35	4	32	4	28	4	23
18	4	36	4	33	4	29	4	26	4	22	4	18
19	4	30	4	27	4	23	4	19	4	15	4	11
20	4	25	4	21	4	17	4	13	4	9	4	4
21	4	19	4	15	4	11	4	6	4	2	3	57
22	4	13	4	9	4	4	4	0	3	55	3	50
23	4	7	4	3	3	58	3	53	3	47	3	42
24	4	1	3	56	3	51	3	46	3	40	3	34

Left-hand Column, under the Word Degrees; then look the Latitude of the Place in the Top of the Table; and in that Column, againſt the Sun's Declination, will be found the Time of his viſible half Duration above the Horizon, or Time of his Setting, correct by Refraction; then ſubtract the Time of his Setting from 12 Hours, the Remainder will be the Time of his Riſing; double the Time of his Setting the

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A Table of the Sun's Semi-diurnal Arches, or Times

The Sun's Declination North.

Decl.	Lat. 55		Lat. 56		Lat. 57		Lat. 58		Lat. 59		Lat 60	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	6	9	6	10	6	10	6	10	6	11	6	11
2	6	15	6	16	6	16	6	17	6	17	6	18
3	6	21	6	22	6	22	6	23	6	24	6	25
4	6	27	6	28	6	29	6	30	6	31	6	32
5	6	32	6	34	6	35	6	36	6	38	6	39
6	6	38	6	40	6	41	6	43	6	44	6	46
7	6	44	6	46	6	48	6	49	6	51	6	53
8	6	50	6	52	6	54	6	56	6	58	7	1
9	6	56	6	58	7	1	7	3	7	5	7	8
10	7	2	7	5	7	7	7	10	7	13	7	16
11	7	8	7	11	7	14	7	17	7	20	7	23
12	7	15	7	18	7	21	7	34	7	27	7	31
13	7	21	7	24	7	28	7	31	7	35	7	39
14	7	28	7	31	7	35	7	39	7	43	7	47
15	7	34	7	39	7	42	7	46	7	51	7	56
16	7	41	7	45	7	49	7	54	7	59	8	4
17	7	48	7	52	7	57	8	1	8	7	8	13
18	7	55	8	0	8	5	8	10	8	16	8	22
19	8	2	8	7	8	13	8	19	8	25	8	32
20	8	10	8	15	8	21	8	28	8	35	8	42
21	8	18	8	24	8	30	8	37	8	45	8	53
22	8	26	8	32	8	39	8	47	8	55	9	4
23	8	34	8	41	8	49	8	57	9	6	9	16
24	8	43	8	51	8	59	9	8	9	18	9	29

the Sum will be the Length of the Day; and double the Time of his Rising, the Sum will be the Length of the Night. But if the Latitude of the Place, and Declination of the Sun, consist of Degrees and Minutes, then a small Allowance must be made for the Minutes in both Cases, which may be done by a Person of an ordinary Capacity by a mental Proportion only. Thus, to find the Time of the Sun's Rising and Setting at

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of his visible half Duration above the Horizon.

The Sun's Declination South.

Degr.	Lat. 55		Lat. 56		Lat. 57		Lat. 58		Lat. 59		Lat. 60	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	5	58	5	58	5	58	5	58	5	57	5	57
2	5	52	5	52	5	52	5	51	5	51	5	50
3	5	47	5	46	5	45	5	45	5	44	5	43
4	5	41	5	40	5	39	5	38	5	37	5	36
5	5	35	5	34	5	33	5	32	5	31	5	29
6	5	29	5	28	5	27	5	25	5	24	5	22
7	5	23	5	22	5	20	5	19	5	17	5	15
8	5	17	5	16	5	14	5	12	5	10	5	8
9	5	12	5	10	5	8	5	5	5	3	5	2
10	5	5	5	3	5	1	4	59	4	56	4	53
11	4	59	4	57	4	54	4	52	4	49	4	46
12	4	53	4	51	4	48	4	45	4	42	4	38
13	4	47	4	44	4	41	4	38	4	34	4	30
14	4	41	4	37	4	34	4	30	4	27	4	23
15	4	34	4	31	4	27	4	23	4	19	4	14
16	4	27	4	24	4	20	4	15	4	11	4	6
17	4	21	4	17	4	12	4	8	4	3	3	57
18	4	14	4	9	4	5	4	0	3	54	3	48
19	4	7	4	2	3	56	3	51	3	45	3	39
20	3	59	3	54	3	49	3	43	3	36	3	29
21	3	52	3	46	3	40	3	34	3	27	3	19
22	3	44	3	38	3	31	3	24	3	17	3	9
23	3	36	3	29	3	23	3	15	3	6	2	57
24	3	27	3	20	3	13	3	5	2	55	2	45

at Aberdeen in Scotland, on the Longeſt Day; the Latitude of that Place is accounted 57 Degr. 7 Min. North, and the Sun's Declination 23 Deg. 28 Min. likewiſe North. By theſe you will find by the Table, that 5 Min. for the Sun's Declination, and 1 Min. for the Latitude of the Place, are both, to be added to 8 Hours 49 Min. the Time belonging to 57 Degr. of Latitude and 23 Degr. of North Declination, and the Sum will be 8 Hours 55 Min. the Time of his apparent Setting at Aberdeen, on the longeſt Day, whoſe Complement to 12 Hours, viz. 3 Hours 5 Min. will be the Time of his Riſing, &c.

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A Table of the Sun's Right-Aſcenſion in Time, the greateſt

Days	♈ h m s	♉ h m s	♊ h m s	♋ h m s	♌ h m s	♍ h m. s
0	0 0 0	1 51 37	3 51 15	6 0 0	8 8 45	10 8 23
1	0 3 40	1 55 27	3 55 25	6 4 22	8 12 54	10 12 12
2	0 7 20	1 59 17	3 59 36	6 8 43	8 17 3	10 16 0
3	0 11 0	2 3 8	4 3 48	6 13 5	8 21 11	10 19 48
4	0 14 41	2 6 59	4 8 0	6 17 26	8 25 19	10 23 35
5	0 18 21	2 10 51	4 12 13	6 21 48	8 29 26	10 27 22
6	0 22 2	2 14 44	4 16 26	6 26 9	8 33 31	10 31 8
7	0 25 42	2 18 37	4 20 40	6 30 30	8 37 37	10 34 54
8	0 29 23	2 22 31	4 24 55	6 34 51	8 41 41	10 38 40
9	0 33 4	2 26 25	4 29 10	6 39 11	8 45 45	10 42 25
10	0 36 45	2 30 20	4 33 26	6 43 31	8 49 48	10 46 9
11	0 40 26	2 34 16	4 37 42	6 47 51	8 53 51	10 49 53
12	0 44 8	2 38 13	4 41 59	6 52 11	8 57 52	10 53 37
13	0 47 50	2 42 10	4 46 16	6 56 31	9 1 53	10 57 20
14	0 51 32	2 46 8	4 50 34	7 0 50	9 5 53	11 1 3
15	0 55 14	2 50 7	4 54 52	7 5 8	9 9 53	11 4 46
16	0 58 5	2 54 7	4 59 10	7 9 26	9 13 52	11 8 28
17	1 2 40	2 58 7	5 3 29	7 13 44	9 17 50	11 12 10
18	1 6 23	3 2 8	5 7 49	7 18 1	9 21 47	11 15 52
19	1 10 7	3 6 9	5 12 9	7 22 18	9 25 44	11 19 34
20	1 13 51	3 10 12	5 16 29	7 26 34	9 29 40	11 23 15
21	1 17 35	3 14 15	5 20 49	7 30 50	9 33 35	11 26 56
22	1 21 20	3 18 19	5 25 9	7 35 5	9 37 29	11 30 37
23	1 25 6	3 22 23	5 29 30	7 39 20	9 41 23	11 34 18
24	1 28 52	3 26 29	5 33 51	7 43 34	9 45 16	11 37 58
25	1 32 38	3 30 35	5 38 12	7 47 47	9 49 9	11 41 39
26	1 36 25	3 34 41	5 42 34	7 52 0	9 53 1	11 45 19
27	1 40 12	3 38 49	5 46 55	7 56 12	9 56 52	11 49 0
28	1 44 0	3 42 57	5 51 17	8 0 24	10 0 43	11 52 40
29	1 47 48	3 47 6	5 55 38	8 4 35	10 4 33	11 56 20
30	1 51 37	3 51 15	6 0 0	8 8 45	10 8 23	12 0 0

The time of the ſouthing or meridian tranſits of the fixed ſtars in pa. 46, may be found thus. On the noon of the day, preceding the night in which you want to know the time of the ſouthing of any of thoſe ſtars, find the Sun's place in the Ephemeris, and with it take out of the above table his right aſcenſion in time; this you may do by inſpection to a minute, which will be ſufficient for your preſent purpoſe: Then from the right-aſcenſion of the ſtar in pa. 46, ſubtract the right-aſcenſion of the Sun, the remainder will be the eſtimate time of the ſtar's ſouthing, and will not differ from the true time above 2 or 3 minutes at moſt, which may be near enough for ordinary uſes. But when great exactneſs is required, reduce the Sun's place to this eſtimate time, and with it find in the above table his right aſcenſion to ſeconds, which being ſubtracted from that of the ſtar, the remainder will be the

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Obliquity of the Ecliptic being 23° 28′.

Degr.	♌ h m s	♍ h m s	♎ h m s	♏ h m s	♐ h m s	♑ h m s
0	12 0 0	13 51 37	15 51 15	18 0 0	20 8 45	22 8 23
1	12 3 40	13 55 27	15 55 25	18 4 22	20 12 54	22 12 12
2	12 7 20	13 59 17	15 59 36	18 8 43	20 17 3	22 16 0
3	12 11 0	14 3 8	16 3 48	18 13 5	20 21 11	22 19 48
4	12 14 41	14 6 59	16 7 0	18 17 26	20 25 19	22 23 35
5	12 18 21	14 10 51	16 12 13	18 21 48	20 29 26	22 27 22
6	12 22 2	14 14 44	16 16 26	18 26 9	20 33 31	22 31 8
7	12 25 42	14 18 37	16 20 40	18 30 30	20 37 37	22 34 54
8	12 29 23	14 22 31	16 24 55	18 34 51	20 41 41	22 38 40
9	12 33 4	14 26 25	16 29 10	18 39 11	20 45 45	22 42 25
10	12 36 45	14 30 20	16 33 26	18 43 31	20 49 48	22 46 9
11	12 40 26	14 34 16	16 37 42	18 47 51	20 53 51	22 49 53
12	12 44 8	14 38 13	16 41 59	18 52 11	20 57 52	22 53 37
13	12 47 50	14 42 10	16 46 16	18 56 31	21 1 53	22 57 20
14	12 51 32	14 46 8	16 50 34	19 0 50	21 5 53	23 1 3
15	12 55 14	14 50 7	16 54 52	19 5 8	21 9 53	23 4 46
16	12 58 57	14 54 7	16 59 10	19 9 26	21 13 52	23 8 28
17	13 2 40	14 58 7	17 3 29	19 13 44	21 17 50	23 12 10
18	13 6 23	15 2 8	17 7 49	19 18 1	21 21 47	23 15 52
19	13 10 7	15 6 9	17 12 9	19 22 18	21 25 44	23 19 34
20	13 13 51	15 10 12	17 16 29	19 26 34	21 29 40	23 23 15
21	13 17 35	15 14 15	17 20 49	19 30 50	21 33 35	23 26 56
22	13 21 20	15 18 19	17 25 9	19 35 5	21 37 29	23 30 37
23	13 25 6	15 22 23	17 29 30	19 39 20	21 41 23	23 34 18
24	13 28 52	15 26 29	17 33 51	19 43 34	21 45 16	23 37 58
25	13 32 38	15 30 35	17 38 12	19 47 47	21 49 9	23 41 39
26	13 36 25	15 34 41	17 42 34	19 52 0	21 53 1	23 45 19
27	13 40 12	15 38 49	17 46 55	19 56 12	21 56 52	23 49 0
28	13 44 0	15 42 57	17 51 17	20 0 24	22 0 43	23 52 40
29	13 47 48	15 47 6	17 55 38	20 4 35	22 4 33	23 56 20
30	13 51 37	15 51 15	18 0 0	20 8 45	22 8 23	24 0 0

the true time of the ſtar's culminating or ſouthing. And if from the time of the ſtar's ſouthing you ſubtract the ſemidiurnal arc belonging to it, the remainder will be the time of the ſtar's riſing; and being added to it, the ſum will be the time of its ſetting.

Annexed is an Ex. of SIRIUS for Jan. 31, 1788.

	h m s
☉'s place at noon ♒	11° 24
Rt. Aſc. of Sirius - -	6 35 33
☉'s rt. aſc. ſubtract -	20 55 27
✳'s eſtimate ſouthing -	9 40 6
☉'s rt. aſc. at that time ſub.	20 57 20
✳'s true ſouthing - -	9 38 13
Semid. arc ſub. & add -	4 36 5
✳'s riſing aſtern. - -	5 1 18
✳'s ſetting - - -	14 15 8

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A Table of the mean Right-Aſcenſions in time, Semidurnal Arcs, Declinations, and Magnitudes of 40 remarkable fixed Stars, with their Names, and Bayer's Literal Characters, for January 1, 1782.

Names of the Stars	Ch.	Rt. Aſc.			Declination			Semid. Ar.			Ma
		h	m	s	°	′	″	h	m	s	
Pole ſtar, Alruccabah -	α	0	48	3	88	8	36 n	ſets not			2
Andromeda's girdle, Mirach -	β	0	57	36	34	27	35 n	10	7	32	2
Andromeda's left foot, Almach	γ	1	50	36	41	16	50 n	ſets not			2
Ram's following horn -	α	1	54	56	22	25	27 n	8	9	35	2
Whale's jaw, Menkar -	α	2	50	54	3	13	26 n	6	19	48	2
Meduſa's head, Algol - -	β	2	54	4	40	6	6 n	ſets not			2
Perſeus's right ſide, Algenib	α	3	8	51	49	4	11 n	ſets not			2
Brighteſt of the 7 ſtars -	η	3	34	34	23	25	2 n	8	16	40	3
Bull's ſouth eye, Aldebaran	α	4	23	26	16	3	23 n	7	28	51	1
Auriga's left ſhoulder, Capella	α	5	0	37	45	44	59 n	ſets not			1
Orion's left foot, Rigel -	β	5	4	4	8	28	3 s	5	20	28	1
Bull's north horn - -	β	5	12	32	28	24	22 n	8	57	1	2
Orion's left ſhoulder, Bellatrix	γ	5	13	27	6	8	10 n	6	34	41	2
Orion's girdle - -	ε	5	25	16	1	21	24 s	5	56	42	2
Orion's right ſhoulder, Betelgeuſe	α	5	43	23	7	20	59 n	6	40	58	1
In the great Dog's mouth, Sirius	α	6	35	33	16	25	14 s	4	36	55	1
Head of the 1ſt Twin, Caſtor	α	7	20	41	32	20	54 n	9	38	21	1
In the leſs Dog's thigh, Procyon	α	7	27	54	5	46	41 n	6	32	50	1
Head of the 2d Twin, Pollux	β	7	31	59	28	32	14 n	8	58	13	2
Hydra's heart, Alphard -	α	9	16	53	7	43	21 s	5	24	20	2
Lyon's heart, Regulus -	α	9	56	45	13	1	32 n	7	11	28	1
Great Bear, Lower Pointer	β	10	48	34	57	32	47 n	ſets not			2
Great Bear, Upper Pointer -	α	10	50	8	62	55	27 n	ſets not			2
Lion's tail, Deneb - -	β	11	37	56	15	47	28 n	7	27	18	2
Great Bear, 1ſt in the tail, Aliath	ε	12	44	22	57	8	46 n	ſets not			2
Virgius's ſpike - -	α	13	13	44	10	1	2 s	5	12	20	1
Dragon's tail - -	α	13	58	30	65	25	19 n	ſets not			2
Bootes, Arcturus -	α	14	5	46	20	20	5 n	7	55	26	1
Libra, Southern Scale - -	α	14	38	52	15	7	26 s	4	44	23	2
Libra, Northern Scale - -	β	15	5	18	8	33	59 s	5	19	57	2
Bright ſtar in the North Crown	α	15	25	28	27	27	35 n	8	48	36	2
Scorpion's heart, Antares	α	16	16	4	25	55	50 s	3	34	6	1
Hercules's head, Raſ. Algethi	α	17	4	43	14	39	8 n	7	20	41	2
Head of Serpentarius - -	α	17	24	49	12	44	2 n	7	9	50	2
Dragon's head, Raſtaben -	γ	17	51	34	51	31	19 n	ſets not			2
Bright ſtar in the Harp, Lyra	α	18	29	33	38	35	19 n	ſets not			1
Bright ſtar in the Eagle, Atair	α	19	40	8	8	18	10 n	6	45	57	2
Mouth of ſouth Fiſh, Fomalhaut	α	22	45	34	30	46	17 s	2	52	6	1
Pegaſus's wing, Markab -	α	22	53	55	14	2	8 n	7	17	10	2
Andromeda's head - -	α	23	57	9	27	53	2 n	8	52	19	2

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A Table of the Longitudes, Latitudes, and Magnitudes of the moſt remarkable fixed Stars that the Moon can Eclipſe, or make a near Appulſe unto; exactly rectified to the beginning of the year 1780.

Con.	Cha.	Long.			Lat.			Mag.
		°	′	″	°	′	″	
♓	δ	♈11	4	48	2	9	44 n	4
	ε		14	28	2	1	5 37 n	4
	ζ		16	48	2	0	13 11 s	4
♈	δ	♉17	46	21	1	48	7 n	4
♉	η		26	55	21	4	1 36 n	3
	γ	♊	2	43	37	5	45 30 s	3
	ε		5	23	14	2	35 37 s	3
	α		6	42	57	5	29 2 s	1
	β		19	30	14	5	21 59 n	2
	ζ		21	42	52	2	13 29 s	3
♊	ν	♋	0	22	14	0	55 4 s	4
	μ		2	13	39	0	50 34 s	3
	γ		5	1	57	6	46 12 s	2
	ε		6	52	7	2	2 28 n	3
	δ		15	27	6	0	18 19 s	3
	β		20	11	11	6	40 4 n	1
♋	γ	♌	4	28	28	3	19 22 n	4
	δ		5	38	46	0	4 13 n	4
♌	ξ		18	35	0	3	1 57 s	4
	ε		21	11	15	3	46 1 s	4
	η		24	50	0	4	51 9 n	4
	α		26	46	26	0	27 27 n	1
	ρ	♍	3	19	2	0	8 29 n	4
	τ		18	26	24	0	31 21 s	4
	υ		21	58	9	3	2 51 s	4
♍	β		24	2	24	0	41 36 n	3
	ο	♎	0	17	47	5	4 48 n	3
	π		1	45	53	1	22 24 n	3
	γ		7	6	18	2	48 57 n	3
	α		20	46	27	2	2 11 s	1

Con.	Cha.	Long.			Lat.			Mag.
		°	′	″	°	′	″	
♎		♍12	1	6	0	21	48 n	2
	12		17	56	14	1	49 14 s	3
	γ		22	3	46	4	24 41 n	3
	π		24	18	10	4	2 52 n	4
	κ		24	41	24	0	1 1 n	4
	θ		26	47	49	3	29 24 n	4
	λ		27	24	23	0	6 53 n	4
♍	δ		29	30	5	1	57 17 s	3
	π		29	52	12	5	26 15 s	3
	β	♐	0	7	10	1	2 18 n	2
	ν		1	34	27	1	39 52 n	4
	σ		4	43	50	4	0 23 s	4
	π		6	41	35	4	32 17 s	1
	τ		8	23	19	6	5 21 s	4
♐	γ		28	11	40	6	56 48 s	3
	μ	♑	0	8	35	2	22 24 n	4
	λ		3	15	8	2	5 31 s	4
			7	6	25	3	55 22 s	3
	σ		9	18	54	3	24 55 s	3
	τ		11	46	9	5	2 33 s	3
	ο		11	55	13	0	53 36 n	3
	π		13	10	58	1	28 7 n	4
♑	β	♒	0	58	32	4	36 46 n	3
	ε		17	7	37	4	57 31 s	4
	γ		18	48	30	2	32 6 s	4
	δ		20	27	42	2	33 40 s	3
♒	ι		25	38	54	2	3 47 s	4
	θ	♓	0	11	19	2	43 22 n	4
	λ		8	30	26	0	22 57 s	4
	ω		14	4	16	1	2 8 s	4

This table ſhewing the mean longitudes of 60 ſtars to the beginning of the year 1780, their mean longitudes for any other time may be found if 50½ ſeconds be added for each ſucceeding, and ſubtracted for each preceding year, and proportionably for a part of a year. Thus, to find the longitude of the firſt ſtar ♓ δ, or δ piſcium, for Feb. 15, 1782, or 2 years and one eighth after the tabular time; here 2⅛ times 50½ ſec. make 1′ 47″, which being added to the tabular longitude, gives ♈ 11° 6′ 35″ for the longitude required at the given time.——The latitudes vary not.

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The Latitudes and Longitudes of Ninety Places.

	Lat.		Long.			Lat.		Long.	
	°	′	°	′		°	′	°	′
Alexandria, Egypt	31	11 n	30	17 e	Iſpahan	32	25 n	52	55 e
Amſterdam, Hol.	52	23 n	4	52 e	Land's end	50	6 n	5	50 w
Archangel, Ruſ.	64	34 n	38	30 e	Leghorn	43	33 n	10	25 e
Athens	37	40 n	23	52 e	Leoſtoff	52	38 n	1	54 e
Babelmandel	12	50 n	43	50 e	Leverpool	53	22 n	3	10 w
Batavia	6	12 s	106	45 e	Lima	12	1 s	76	50 w
Bengal	22	0 n	92	45 e	Liſbon	38	42 n	9	4 w
Berlin	52	33 n	13	26 e	Lizard	49	57 n	5	21 w
Bombay Iſle	19	42 n	73	3 e	London	51	31 n	0	0
Boſton, Amer.	42	25 n	70	37 w	Madras	13	8 n	80	7 e
Breſlau	51	3 n	17	13 e	Madrid	40	25 n	3	45 w
Breſt	48	23 n	4	30 w	Manila	14	30 n	120	25 e
Briſtol	51	28 n	2	30 w	Marſeilles	43	18 n	5	21 e
Buenos Ayres	34	35 s	58	0 w	Mexico	19	54 n	100	5 w
Cadiz	36	31 n	6	7 w	Miſſiſſipi, mouth	29	0 n	89	17 w
Calais	50	58 n	1	51 e	Moſcow	55	25 n	37	51 e
Cairo, Egypt	30	2 n	31	26 e	Naples	40	51 n	14	19 e
Cambridge	52	13 n	0	4 e	Newcaſtle	55	0 n	1	18 w
Canaria Iſlands	28	1 n	15	0 w	Oporto	40	53 n	8	35 w
Canton	23	8 n	113	2 e	Orkney I. northend	59	24 n	3	23 w
Cape of Goodhope	34	29 s	18	23 e	Oxford	51	45 n	1	16 w
Cape Horn	55	59 s	67	26 w	Paris	48	50 n	2	25 e
Carthegena	10	27 n	75	26 w	Pekin	39	55 n	116	22 e
Charles Town Am.	33	22 n	79	50 w	Peterſburg	59	56 n	30	19 e
Conſtantinople	41	0 n	28	53 e	Philadelphia	39	57 n	75	18 w
Copenhagen	55	41 n	12	50 e	Plymouth	50	24 n	4	15 w
Corinth	37	30 n	23	0 e	Port Mahon	39	51 n	3	53 e
Corke	51	54 n	8	30 w	Port Royal, Jam.	17	40 n	76	37 w
Dantzic	54	22 n	18	36 e	Portſmouth	50	48 n	1	1 w
Dover	51	7 n	1	19 e	Prague	50	5 n	14	15 e
Dublin	53	12 n	6	55 w	Quebec	46	55 n	71	12 w
Edinburgh	55	58 n	3	1 w	Rome	41	54 n	12	32 e
Ferro, Iſle	27	48 n	18	6 w	Scilly Iſles	50	0 n	6	45 w
Finiſterre, Cape	42	57 n	9	36 w	Smyrna	38	28 n	27	25 e
Genoa	44	25 n	8	41 e	Stockholm	59	22 n	18	12 e
Gibraltar	36	5 n	4	46 w	Syracuſe	37	4 n	15	20 e
Glaſgow	55	52 n	4	5 w	Tangier	35	55 n	5	45 w
Goa	15	31 n	73	50 e	Teneriff	28	16 n	16	32 w
Gottingen	51	32 n	9	58 e	Tunis	36	47 n	10	16 e
Greenwich	51	29 n	0	5 e	Turin	45	5 n	7	45 e
Hacluit's Head.	79	55 n	12	0 e	Venice	45	27 n	12	24 e
Halifax, America	44	46 n	63	20 w	Verd, Cape	14	47 n	17	28 w
Havanna	23	12 n	81	11 w	Vienna	48	11 n	16	28 e
Helena, I. St.	15	55 s	5	49 w	Upſal	59	52 n	17	43 e
Jeruſalem	31	50 n	35	25 e	Uraniberg	55	54 n	12	52 e

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